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In your requests please include the following reference number 78EE117C99-1029997383

Contents

- 1.1 netty-buffer 4.1.34**
 - 1.1.1 Available under license
- 1.2 jedis 2.10.2**
- 1.3 safe-buffer 5.1.2 5.1.2**
 - 1.3.1 Available under license
- 1.4 javax-el 2.2.4**
- 1.5 lucene-backward-codecs 8.0.0**
 - 1.5.1 Available under license
- 1.6 ee-first 1.1.1 1.1.1**
 - 1.6.1 Available under license
- 1.7 tar 2.2.1 2.2.1**
 - 1.7.1 Available under license
- 1.8 bindings 1.2.1 1.2.1**
 - 1.8.1 Available under license
- 1.9 jsr305 3.0.1**
- 1.10 base64id 1.0.0 1.0.0**
 - 1.10.1 Available under license
- 1.11 jcl-over-slf4j 1.7.19**
- 1.12 netty-handler 4.1.32**
 - 1.12.1 Available under license
- 1.13 regenerator-runtime 0.11.1 0.11.1**
 - 1.13.1 Available under license
- 1.14 dtrace-provider 0.6.0 0.6.0**
 - 1.14.1 Available under license
- 1.15 buffer-crc32 0.2.13 0.2.13**
 - 1.15.1 Available under license

- 1.16 commons-logging 1.2**
 - 1.16.1 Available under license
- 1.17 commons-configuration 1.10**
 - 1.17.1 Available under license
- 1.18 snappy-java 1.1.7.3**
- 1.19 grpc-okhttp 0.12.0**
 - 1.19.1 Available under license
- 1.20 druid 1.0.15**
 - 1.20.1 Available under license
- 1.21 hk2-utils 2.2.0**
- 1.22 array-flatten 1.1.1 1.1.1**
 - 1.22.1 Available under license
- 1.23 bindings 1.3.0 1.3.0**
 - 1.23.1 Available under license
- 1.24 rimraf 2.4.5 2.4.5**
 - 1.24.1 Available under license
- 1.25 merge-descriptors 1.0.1 1.0.1**
 - 1.25.1 Available under license
- 1.26 engine.io 3.1.4 3.1.4**
 - 1.26.1 Available under license
- 1.27 console-control-strings 1.1.0 1.1.0**
 - 1.27.1 Available under license
- 1.28 kind-of 3.2.2 3.2.2**
 - 1.28.1 Available under license
- 1.29 flink-metrics-core 1.8.3**
 - 1.29.1 Available under license
- 1.30 commons-codec 1.12**
 - 1.30.1 Available under license
- 1.31 send 0.13.2 0.13.2**
 - 1.31.1 Available under license
- 1.32 java-jwt 3.8.3**
 - 1.32.1 Available under license
- 1.33 icu4j 58.2**
 - 1.33.1 Available under license
- 1.34 commons-logging 1.1.1**
 - 1.34.1 Available under license
- 1.35 babel-helper-builder-binary-assignment-operator-visitor 6.24.1 6.24.1**
 - 1.35.1 Available under license
- 1.36 jackson-dataformat-yaml 2.10.1**

- 1.36.1 Available under license
- 1.37 are-we-there-yet 1.1.4 1.1.4**
 - 1.37.1 Available under license
- 1.38 amqp-client 3.6.6**
 - 1.38.1 Available under license
- 1.39 jackson-annotations 2.10.1**
 - 1.39.1 Available under license
- 1.40 zstd-jni 1.4.3-1**
 - 1.40.1 Available under license
- 1.41 slf4j 1.7.28**
 - 1.41.1 Available under license
- 1.42 parseqs 0.0.5 0.0.5**
 - 1.42.1 Available under license
- 1.43 ecc-jsbn 0.1.1 0.1.1**
 - 1.43.1 Available under license
- 1.44 async 0.2.10 0.2.10**
 - 1.44.1 Available under license
- 1.45 jetty-client 9.3.27.v20190418**
- 1.46 go-xerial-snappy 776d571**
 - 1.46.1 Available under license
- 1.47 commons-validator 1.5.1**
 - 1.47.1 Available under license
- 1.48 protobuf-java 3.7.1**
 - 1.48.1 Available under license
- 1.49 javax-inject 2.2.0**
- 1.50 negotiator 0.6.1 0.6.1**
 - 1.50.1 Available under license
- 1.51 groovy-templates 2.4.6**
- 1.52 cryptiles 3.1.2 3.1.2**
 - 1.52.1 Available under license
- 1.53 dont-sniff-mimetype 1.0.0 1.0.0**
 - 1.53.1 Available under license
- 1.54 hppc 0.7.1**
 - 1.54.1 Available under license
- 1.55 string-width 1.0.2 1.0.2**
 - 1.55.1 Available under license
- 1.56 jcabi-manifests 1.1**
 - 1.56.1 Available under license
- 1.57 protobuf-java 3.6.0**

1.58 go-restful v2.4.0

1.58.1 Available under license

1.59 jcip-annotation 1.0-1

1.60 zkclient 0.10

1.61 auto-value-annotations 1.6.6

1.61.1 Available under license

1.62 ms 0.7.1 0.7.1

1.62.1 Available under license

1.63 animal-sniffer-annotation 1.14

1.64 arraybuffer.slice 0.0.7 0.0.7

1.64.1 Available under license

1.65 to-array 0.1.4 0.1.4

1.65.1 Available under license

1.66 kafka-clients 2.4.0

1.66.1 Available under license

1.67 asynckit 0.4.0 0.4.0

1.67.1 Available under license

1.68 js-base64 2.4.0 2.4.0

1.68.1 Available under license

1.69 c3p0 0.9.1.1

1.69.1 Available under license

1.70 golang 1.10.4

1.70.1 Available under license

1.71 xtend 4.0.1 4.0.1

1.71.1 Available under license

1.72 combined-stream 1.0.5 1.0.5

1.72.1 Available under license

1.73 classmate 0.8.0

1.74 lz4-java 1.6.0

1.75 slf4j-log4j 1.7.19

1.75.1 Available under license

1.76 xtend 2.1.2 2.1.2

1.76.1 Available under license

1.77 googleauthlibraryoauthhttp 0.4.0

1.77.1 Available under license

1.78 has-unicode 2.0.1 2.0.1

1.78.1 Available under license

1.79 babel-plugin-syntax-exponentiation-operator 6.13.0 6.13.0

1.79.1 Available under license

- 1.80 iconv-lite 0.4.13 0.4.13**
 - 1.80.1 Available under license
- 1.81 go-avro v0.2**
 - 1.81.1 Available under license
- 1.82 objenesis 2.1**
 - 1.82.1 Available under license
- 1.83 babel-messages 6.23.0 6.23.0**
 - 1.83.1 Available under license
- 1.84 grpc-go v1.19.1**
 - 1.84.1 Available under license
- 1.85 lang-mustache-client 7.0.0**
 - 1.85.1 Available under license
- 1.86 asn1 0.2.3 0.2.3**
 - 1.86.1 Available under license
- 1.87 metrics-json 3.1.0**
- 1.88 boringssl 2.0.22.Final**
 - 1.88.1 Available under license
- 1.89 httpasyncclient 4.1.4**
 - 1.89.1 Available under license
- 1.90 typesafe-config 1.3.0**
 - 1.90.1 Available under license
- 1.91 engine.io-client 3.1.4 3.1.4**
 - 1.91.1 Available under license
- 1.92 semver 5.4.1 5.4.1**
 - 1.92.1 Available under license
- 1.93 retry 0.10.1 0.10.1**
 - 1.93.1 Available under license
- 1.94 tough-cookie 2.3.3 2.3.3**
 - 1.94.1 Available under license
- 1.95 assert-plus 1.0.0 1.0.0**
 - 1.95.1 Available under license
- 1.96 golang 1.10.4**
 - 1.96.1 Available under license
- 1.97 zookeeper 3.4.13**
 - 1.97.1 Available under license
- 1.98 commons-io 2.6**
 - 1.98.1 Available under license
- 1.99 netty-transport-native-unix-common 4.1.34**
 - 1.99.1 Available under license

- 1.100 flink-annotations 1.8.3**
 - 1.100.1 Available under license
- 1.101 netty-resolver 4.1.32**
 - 1.101.1 Available under license
- 1.102 elasticsearch-secure-sm 7.0.0**
 - 1.102.1 Available under license
- 1.103 lucene-analyzers-common 8.0.0**
 - 1.103.1 Available under license
- 1.104 typesafe-config 1.2.0**
 - 1.104.1 Available under license
- 1.105 jsprim 1.4.1 1.4.1**
 - 1.105.1 Available under license
- 1.106 json3 3.3.2 3.3.2**
 - 1.106.1 Available under license
- 1.107 lucene-memory 8.0.0**
 - 1.107.1 Available under license
- 1.108 byte-buddy-dep 1.9.3**
- 1.109 process-nexttick-args 1.0.7 1.0.7**
 - 1.109.1 Available under license
- 1.110 npmlog 4.1.2 4.1.2**
 - 1.110.1 Available under license
- 1.111 commons-csv 1.4**
 - 1.111.1 Available under license
- 1.112 core-js 2.5.3 2.5.3**
 - 1.112.1 Available under license
- 1.113 slf4j 1.7.26**
 - 1.113.1 Available under license
- 1.114 groovy-xml 2.4.6**
- 1.115 lucene-spatial3d 8.0.0**
 - 1.115.1 Available under license
- 1.116 snake-yaml 1.17**
 - 1.116.1 Available under license
- 1.117 websocket-common 9.3.27.v20190418**
- 1.118 babel-helper-function-name 6.24.1 6.24.1**
 - 1.118.1 Available under license
- 1.119 1to2 1.0.0 1.0.0**
 - 1.119.1 Available under license
- 1.120 commons-lang3 3.3.1**
 - 1.120.1 Available under license

- 1.121 delayed-stream 1.0.0 1.0.0**
 - 1.121.1 Available under license
- 1.122 signal-exit 3.0.2 3.0.2**
 - 1.122.1 Available under license
- 1.123 fresh 0.3.0 0.3.0**
 - 1.123.1 Available under license
- 1.124 groovy 2.4.6**
- 1.125 grpc-stub 0.12.0**
 - 1.125.1 Available under license
- 1.126 jackson 2.10.0.pr3**
 - 1.126.1 Available under license
- 1.127 paesslerag-jsonpath 0.1.1**
 - 1.127.1 Available under license
- 1.128 netty-tcnative-boringssl-static 2.0.22**
 - 1.128.1 Available under license
- 1.129 flink-core 1.8.3**
 - 1.129.1 Available under license
- 1.130 netty 4.0.51**
 - 1.130.1 Available under license
- 1.131 opencensus-api 0.21.0**
- 1.132 jersey-server 2.5.1**
- 1.133 cassandra-driver-mapping 3.0.2**
- 1.134 aop-alliance 1.0**
 - 1.134.1 Available under license
- 1.135 siddhi-core 5.1.4**
 - 1.135.1 Available under license
- 1.136 utils-merge 1.0.0 1.0.0**
 - 1.136.1 Available under license
- 1.137 grpc-auth 0.12.0**
 - 1.137.1 Available under license
- 1.138 base64url 2.0.0 2.0.0**
 - 1.138.1 Available under license
- 1.139 gremlin-groovy 3.2.0**
 - 1.139.1 Available under license
- 1.140 cookie 0.3.1 0.3.1**
 - 1.140.1 Available under license
- 1.141 debug 2.2.0 2.2.0**
 - 1.141.1 Available under license
- 1.142 logrus v1.0.4**

1.142.1 Available under license
1.143 avsc 5.1.2 5.1.2
1.143.1 Available under license
1.144 lucene-queryparser 8.0.0
1.144.1 Available under license
1.145 nopt 3.0.6 3.0.6
1.145.1 Available under license
1.146 asm 5.0.4
1.146.1 Available under license
1.147 compression 1.6.2 1.6.2
1.147.1 Available under license
1.148 annotations 4.1.1.4
1.149 helmet-csp 1.2.2 1.2.2
1.149.1 Available under license
1.150 path-to-regexp 0.1.7 0.1.7
1.150.1 Available under license
1.151 delegates 1.0.0 1.0.0
1.151.1 Available under license
1.152 grpc-netty 0.12.0
1.152.1 Available under license
1.153 jackson-jaxrs-xml-provider 2.9.10
1.153.1 Available under license
1.154 es5-ext 0.10.37 0.10.37
1.154.1 Available under license
1.155 netty 4.1.42
1.155.1 Available under license
1.156 transport-netty4-client 7.0.0
1.156.1 Available under license
1.157 jaeger-core 0.23.0
1.157.1 Available under license
1.158 scala-reflect 2.11.12
1.159 x-xss-protection 1.0.0 1.0.0
1.159.1 Available under license
1.160 commons-io 2.6
1.160.1 Available under license
1.161 commons-lang3 3.9
1.161.1 Available under license
1.162 sntp 1.0.9 1.0.9
1.162.1 Available under license

- 1.163 engine.io-parser 2.1.2 2.1.2**
 - 1.163.1 Available under license
- 1.164 require_optional 1.0.1 1.0.1**
 - 1.164.1 Available under license
- 1.165 jackson-annotations 2.9.10**
 - 1.165.1 Available under license
- 1.166 amqp ff791c2**
 - 1.166.1 Available under license
- 1.167 flink-shaded-asm 5.0.4**
 - 1.167.1 Available under license
- 1.168 opentracing-api 0.31.0**
 - 1.168.1 Available under license
- 1.169 google-http-client-xml 1.20.0**
 - 1.169.1 Available under license
- 1.170 grpc-api 1.21.0**
 - 1.170.1 Available under license
- 1.171 immutable 3.8.2 3.8.2**
 - 1.171.1 Available under license
- 1.172 parseurl 1.3.2 1.3.2**
 - 1.172.1 Available under license
- 1.173 bitsyntax 0.1.0 0.1.0**
 - 1.173.1 Available under license
- 1.174 json-java 20180813**
 - 1.174.1 Available under license
- 1.175 json-path 2.4.0**
 - 1.175.1 Available under license
- 1.176 serve-static 1.10.3 1.10.3**
 - 1.176.1 Available under license
- 1.177 lodash.once 4.1.1 4.1.1**
 - 1.177.1 Available under license
- 1.178 json-stable-stringify 1.0.1 1.0.1**
 - 1.178.1 Available under license
- 1.179 bluebird 3.7.2 3.7.2**
 - 1.179.1 Available under license
- 1.180 connect 3.4.1 3.4.1**
 - 1.180.1 Available under license
- 1.181 on-finished 2.3.0 2.3.0**
 - 1.181.1 Available under license
- 1.182 lodash.reduce 4.5.0 4.5.0**

- 1.182.1 Available under license
- 1.183 babel-plugin-syntax-async-generators 6.13.0 6.13.0**
 - 1.183.1 Available under license
- 1.184 xmlhttprequest-ssl 1.5.4 1.5.4**
 - 1.184.1 Available under license
- 1.185 zookeeperclient 0.2.2 0.2.2**
 - 1.185.1 Available under license
- 1.186 jackson-xc 2.9.10**
 - 1.186.1 Available under license
- 1.187 native-lib-loader 2.0.2**
- 1.188 grpc-protobuf-nano 0.12.0**
 - 1.188.1 Available under license
- 1.189 jetty-webapp 9.3.27.v20190418**
- 1.190 jackson 2.10.0.pr3**
 - 1.190.1 Available under license
- 1.191 mime-types 2.1.17 2.1.17**
 - 1.191.1 Available under license
- 1.192 fstream 1.0.11 1.0.11**
 - 1.192.1 Available under license
- 1.193 caseless 0.12.0 0.12.0**
 - 1.193.1 Available under license
- 1.194 httpcomponents-httpclient 4.2.5**
 - 1.194.1 Available under license
- 1.195 util 1.4.5**
- 1.196 long 1.1.2 1.1.2**
 - 1.196.1 Available under license
- 1.197 joda-time 2.10.1**
 - 1.197.1 Available under license
- 1.198 animal-sniffer-annotation 1.17**
- 1.199 aws-sign2 0.7.0 0.7.0**
 - 1.199.1 Available under license
- 1.200 mongodb 2.2.34 2.2.34**
 - 1.200.1 Available under license
- 1.201 config 1.3.0**
 - 1.201.1 Available under license
- 1.202 raw-body 2.3.2 2.3.2**
 - 1.202.1 Available under license
- 1.203 j2objc-annotations 1.1**
 - 1.203.1 Available under license

- 1.204 arraybuffer.slice 0.0.6 0.0.6**
 - 1.204.1 Available under license
- 1.205 abbrev 1.1.1 1.1.1**
 - 1.205.1 Available under license
- 1.206 jline 2.9**
- 1.207 frocksdbjni 5.17.2**
 - 1.207.1 Available under license
- 1.208 proto-google-common-protos 1.12.0**
- 1.209 jetty-http-spi 9.3.27.v20190418**
- 1.210 path-is-absolute 1.0.1 1.0.1**
 - 1.210.1 Available under license
- 1.211 after 0.8.2 0.8.2**
 - 1.211.1 Available under license
- 1.212 jwa 1.1.5 1.1.5**
 - 1.212.1 Available under license
- 1.213 opentracing-util 0.31.0**
 - 1.213.1 Available under license
- 1.214 netty-codec 4.1.34**
 - 1.214.1 Available under license
- 1.215 woodstox-core 5.3.0**
 - 1.215.1 Available under license
- 1.216 stax 4.2**
 - 1.216.1 Available under license
- 1.217 jsonschema 0.2.3 0.2.3**
 - 1.217.1 Available under license
- 1.218 xpp 1.1.4c**
- 1.219 akka-slf4j 2.4.20**
- 1.220 netty 4.1.30**
 - 1.220.1 Available under license
- 1.221 googleoauthclientjava 1.20.0**
- 1.222 log4j-slf4j-impl 2.8**
 - 1.222.1 Available under license
- 1.223 jackson-databind 2.9.10**
 - 1.223.1 Available under license
- 1.224 commons-collections 3.2.2**
 - 1.224.1 Available under license
- 1.225 json-stringify-safe 5.0.1 5.0.1**
 - 1.225.1 Available under license
- 1.226 rhino 1.7.7.1**

- 1.227 osgi-core 6.0.0.201403061837**
 - 1.227.1 Available under license
- 1.228 bson 1.0.4 1.0.4**
 - 1.228.1 Available under license
- 1.229 request 2.83.0 2.83.0**
 - 1.229.1 Available under license
- 1.230 optional 0.1.4 0.1.4**
 - 1.230.1 Available under license
- 1.231 tiger-types 1.4**
 - 1.231.1 Available under license
- 1.232 annotations 3.0.1**
- 1.233 apache-log4j 2.8.2**
 - 1.233.1 Available under license
- 1.234 tinkergraph-gremlin 3.2.0**
 - 1.234.1 Available under license
- 1.235 protobuf-java 2.4.20**
 - 1.235.1 Available under license
- 1.236 async 1.5.2 1.5.2**
 - 1.236.1 Available under license
- 1.237 netty-transport-native-unix-common 1.21.0**
 - 1.237.1 Available under license
- 1.238 jsr305 3.0.2**
 - 1.238.1 Available under license
- 1.239 httpcore-nio 4.4.11**
 - 1.239.1 Available under license
- 1.240 jackson 2.9.10**
 - 1.240.1 Available under license
- 1.241 babel-runtime 6.26.0 6.26.0**
 - 1.241.1 Available under license
- 1.242 grpc-protobuf 1.21.0**
 - 1.242.1 Available under license
- 1.243 jsr305 1.3.9**
 - 1.243.1 Available under license
- 1.244 qs 6.5.1 6.5.1**
 - 1.244.1 Available under license
- 1.245 google-http-client 1.20.0**
- 1.246 fs 0.0.2 0.0.2**
 - 1.246.1 Available under license
- 1.247 etag 1.7.0 1.7.0**

1.247.1 Available under license
1.248 os-tmpdir 1.0.2 1.0.2
1.248.1 Available under license
1.249 which 1.3.0 1.3.0
1.249.1 Available under license
1.250 commons-math 3.5
1.250.1 Available under license
1.251 go-uuid v1.2.0
1.251.1 Available under license
1.252 grpc-protobuf-lite 1.21.0
1.252.1 Available under license
1.253 depd 1.1.0 1.1.0
1.253.1 Available under license
1.254 commons-lang3 3.8.1
1.254.1 Available under license
1.255 snake-yaml 1.24
1.255.1 Available under license
1.256 aspectj-tools 1.8.13
1.256.1 Available under license
1.257 jsqlparser 1.2
1.257.1 Available under license
1.258 bouncy-castle 1.64
1.258.1 Available under license
1.259 error_prone_annotations 2.1.3
1.259.1 Available under license
1.260 chalk 1.1.3 1.1.3
1.260.1 Available under license
1.261 hk2-api 2.2.0
1.262 platform 1.3.1 1.3.1
1.262.1 Available under license
1.263 netty-handler-proxy 4.1.34
1.263.1 Available under license
1.264 asm 2.2.0
1.264.1 Available under license
1.265 minimatch 3.0.4 3.0.4
1.265.1 Available under license
1.266 commons-lang3 2.6
1.266.1 Available under license
1.267 has-binary 0.1.7 0.1.7

1.267.1 Available under license
1.268 wtf-8 1.0.0 1.0.0
1.268.1 Available under license
1.269 commons-compress 1.18
1.269.1 Available under license
1.270 jcabi-log 0.14
1.271 socket.io 2.0.4 2.0.4
1.271.1 Available under license
1.272 curator-framework 2.12.0
1.272.1 Available under license
1.273 google-api-services-storage v1-rev35-1.20.0
1.273.1 Available under license
1.274 oauth-sign 0.8.2 0.8.2
1.274.1 Available under license
1.275 object-component 0.0.3 0.0.3
1.275.1 Available under license
1.276 media-typer 0.3.0 0.3.0
1.276.1 Available under license
1.277 hide-powered-by 1.0.0 1.0.0
1.277.1 Available under license
1.278 guice 4.2.0
1.278.1 Available under license
1.279 bcpkix-jdk15on 1.64
1.279.1 Available under license
1.280 cryptiles 2.0.5 2.0.5
1.280.1 Available under license
1.281 inflight 1.0.6 1.0.6
1.281.1 Available under license
1.282 netty-codec 4.1.32
1.282.1 Available under license
1.283 babel-helper-explode-assignable-expression 6.24.1 6.24.1
1.283.1 Available under license
1.284 jcip-annotation 1.0 1
1.284.1 Available under license
1.285 component-inherit 0.0.3 0.0.3
1.285.1 Available under license
1.286 hibernate-validator 5.0.0
1.286.1 Available under license
1.287 metrics-core 2.2.0

1.287.1 Available under license
1.288 percolator-client 7.0.0
1.288.1 Available under license
1.289 http-errors 1.6.2 1.6.2
1.289.1 Available under license
1.290 log4j-api 2.8
1.290.1 Available under license
1.291 inherits 2.0.3 2.0.3
1.291.1 Available under license
1.292 bunyan-format 0.2.1 0.2.1
1.292.1 Available under license
1.293 nimbus-jose-jwt 4.41.3
1.293.1 Available under license
1.294 scala-logging_2.12 3.7.2
1.294.1 Available under license
1.295 reflections 0.9.10
1.296 jackson-dataformat-cbor 2.8.11
1.296.1 Available under license
1.297 apr 1.6.5
1.297.1 Available under license
1.298 fast-json-stable-stringify 2.0.0 2.0.0
1.298.1 Available under license
1.299 jcip-annotation 1.0
1.299.1 Available under license
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1.4 javax-el 2.2.4

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1.6 ee-first 1.1.1 1.1.1

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1.7 tar 2.2.1 2.2.1

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1.9 jsr305 3.0.1

1.10 base64id 1.0.0 1.0.0

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1.11 jcl-over-slf4j 1.7.19

1.12 netty-handler 4.1.32

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1.13 regenerator-runtime 0.11.1 0.11.1

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1.14 dtrace-provider 0.6.0 0.6.0

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1.15 buffer-crc32 0.2.13 0.2.13

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1.18 snappy-java 1.1.7.3

1.19 grpc-okhttp 0.12.0

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```
*/opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-
jar/io/grpc/okhttp/internal/framed/Settings.java
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* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc/okhttp/internal/framed/FrameReader.java

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* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc/okhttp/internal/framed/ErrorCode.java

* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc/okhttp/internal/framed/HeadersMode.java

* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc/okhttp/internal/framed/Variant.java

* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc/okhttp/internal/framed/Hpack.java

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- * /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc/okhttp/internal/OptionalMethod.java
- * /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc/okhttp/internal/OkHostnameVerifier.java

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- * /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc/okhttp/internal/Platform.java

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* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc/okhttp/OkHttpSettingsUtil.java

* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc/okhttp/OkHttpChannelBuilder.java

```
* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc-okhttp/Headers.java
* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-
jar/io/grpc-okhttp/OkHttpReadableBuffer.java
* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-
jar/io/grpc-okhttp/OutboundFlowController.java
* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-
jar/io/grpc-okhttp/OkHttpClientTransport.java
* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-
jar/io/grpc-okhttp/OkHttpTlsUpgrader.java
* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-
jar/io/grpc-okhttp/OkHttpClientStream.java
* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc-okhttp/Utils.java
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jar/io/grpc-okhttp/NegotiationType.java
```

* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc-okhttp/package-info.java
* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc-okhttp/OkHttpWritableBufferAllocator.java
* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc-okhttp/OkHttpProtocolNegotiator.java
* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc-okhttp/OkHttpWritableBuffer.java
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* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc-okhttp/internal/ConnectionSpec.java
* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc-okhttp/internal/CipherSuite.java
* /opt/cola/permits/1001160652_1606872405.56/0/grpc-okhttp-0-12-0-sources-1-jar/io/grpc-okhttp/internal/TlsVersion.java
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jar/com/alibaba/druid/sql/ast/SQLName.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/stat/JdbcSqlStatValue.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/parser/NotAllowedCommentException.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/expr/OracleBinaryFloatExpr.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/wall/WallFunctionStat.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/stat/JdbcStatManager.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/expr/SQLNumberExpr.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleStatementImpl.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleSavePointStatement.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/stat/TableStat.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/postgresql/ast/expr/PGIntervalExpr.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/pool/DruidDataSourceC3P0AdapterMBean.java
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jar/com/alibaba/druid/sql/dialect/odps/visitor/OdpsASTVisitor.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/pool/DataSourceDisableException.java
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jar/com/alibaba/druid/sql/dialect/mysql/ast/MySqlForceIndexHint.java
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- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/oracle/ast/clause/OracleParameter.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/proxy/jdbc/JdbcParameterInt.java
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- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/sqlserver/ast/SQLServerOutput.java
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 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/mock/MockRowId.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/support/quartz/DruidQuartzConnectionProvider.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/wall/WallConfig.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/wall/violation/SyntaxErrorViolation.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/db2/parser/DB2ExprParser.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/support/spring/stat/annotation/Stat.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleGotoStatement.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleSelectQueryBlock.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/visitor/functions/Ltrim.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/support/logging/NoLoggingImpl.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/oracle/ast/clause/OracleErrorLoggingClause.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/ast/statement/SQLJoinTableSource.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/builder/SQLBuilder.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowTableStatusStatement.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/mock/MockDriver.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/visitor/SQLASTOutputVisitor.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleCreateProcedureStatement.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/visitor/functions/Locate.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/postgresql/ast/stmt/PGDeleteStatement.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/sqlserver/ast/stmt/SQLServerIfStatement.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/util/H2Utils.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/ast/statement/SQLUnionQueryTableSource.java

- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/mysql/visitor/MySQLParameterizedOutputVisitor.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/support/logging/JakartaCommonsLoggingImpl.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowFunctionCodeStatement.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/postgresql/ast/PGWithClause.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/odps/ast/OdpsInsertStatement.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowGrantsStatement.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/oracle/ast/clause/FlashbackQueryClause.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowIndexesStatement.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/support/jconsole/model/GroupableTableHeader.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/postgresql/ast/expr/PGExtractExpr.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/util/Utils.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/wall/WallCheckResult.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/mock/MockResultSetMetaData.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/sqlserver/ast/stmt/SQLServerWaitForStatement.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/ast/statement/SQLObjectType.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleLockTableStatement.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/ast/statement/SQLRevokeStatement.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/support/logging/Resources.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/proxy/jdbc/ResultSetMetaDataProxyImpl.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/support/spring/stat/SpringStatUtils.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/support/http/stat/WebAppStatValue.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/ast/statement/SQLColumnPrimaryKey.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/ast/statement/SQLSubqueryTableSource.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/visitor/functions/Left.java
- * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-

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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLInsertStatement.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/pool/DruidPooledCallableStatement.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLSQLColumnDefinition.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/clause/CycleClause.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLDropSequenceStatement.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/parser/SQLDDLParser.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/wall/violation/ErrorCode.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/parser/SQLParseException.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/sqlserver/ast/SQLServerSelectQueryBlock.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLAlterTableOption.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-

jar/com/alibaba/druid/proxy/jdbc/ConnectionProxyImpl.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleCreateIndexStatement.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLAlterTableAlterColumn.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/OracleSQLObjectImpl.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/pool/DruidDataSourceStatLogger.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/mock/MockConnectionClosedException.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/wall/spi/MySQLWallVisitor.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/filter/logging/LogFilter.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/support/spring/DruidNativeJdbcExtractor.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLAlterTableAddColumn.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-

jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleExitStatement.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/support/jconsole/DruidDriverPanel.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-

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jar/com/alibaba/druid/sql/dialect/mysql/ast/expr/MySqlExprImpl.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
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* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/wall/WallTableStat.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/proxy/jdbc/JdbcParameterNull.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/postgresql/ast/expr/PGExprImpl.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/visitor/functions/Reverse.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/builder/impl/SQLSelectBuilderImpl.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/parser/SQLStatementParser.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/odps/visitor/OdpsASTVisitorAdapter.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/oracle/parser/OracleCreateTableParser.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/postgresql/visitor/PGSchemaStatVisitor.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/visitor/ParameterizedVisitor.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/filter/stat/StatFilterContext.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/stat/JdbcTraceManager.java

* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/visitor/ParameterizedOutputVisitorUtils.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleAlterTableDropPartition.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/util/DaemonThreadFactory.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/stat/JdbcConnectionStat.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/wall/spi/DB2WallVisitor.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/postgresql/ast/expr/PGCidrExpr.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/proxy/jdbc/ClobProxyImpl.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/util/StringUtils.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/ast/SQLPartitioningClause.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/builder/SQLDeleteBuilder.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/mysql/ast/MySQLIndexHint.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/mysql/ast/MySQLHint.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/proxy/jdbc/NClobProxy.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/ast/SQLOver.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/ast/statement/SQLDropUserStatement.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/ast/statement/SQLDropViewStatement.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/ast/expr/SQLAllColumnExpr.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/sqlserver/ast/SQLServerDeclareItem.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/parser/SQLParserUtils.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowProfileStatement.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/oracle/visitor/OracleExportParameterVisitor.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/visitor/ExportParameterVisitorUtils.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleBlockStatement.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/support/profile/ProfileEntryStatValue.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-

jar/com/alibaba/druid/support/console/DruidStat.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleForStatement.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleInsertStatement.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLColumnReference.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/wall/WallFilter.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/odps/parser/OdpsSelectParser.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/mock/MockRef.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/transact/ast/TransactSQLObject.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLReleaseSavePointStatement.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/expr/MySqlCharExpr.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/support/http/util/IPRange.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleSelectTableReference.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/visitor/MySqlASTVisitorAdapter.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/util/LRUCache.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLWithSubqueryClause.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/sqlserver/ast/SQLServerStatement.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/ast/SQLHint.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/parser/OracleStatementParser.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLSelectStatement.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/visitor/functions/Concat.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/postgresql/ast/stmt/PGInsertStatement.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/postgresql/ast/expr/PGInetExpr.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/filter/logging/CommonsLogFilterMBean.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/expr/OracleIntervalExpr.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/util/TransactionInfo.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/wall/WallContext.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-

jar/com/alibaba/druid/support/monitor/MonitorServlet.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/ast/statement/SQLSelectOrderByItem.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/ast/statement/SQLForeignKeyImpl.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/db2/visitor/DB2EvalVisitor.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/mysql/ast/MySqlIgnoreIndexHint.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/ast/statement/SQLCreateViewStatement.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLStartTransactionStatement.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowProcedureCodeStatement.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/wall/WallTableStatValue.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/ast/expr/SQLTimestampExpr.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/sqlserver/parser/SQLServerStatementParser.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLCommitStatement.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/support/jconsole/model/DruidTableModel.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/ast/statement/SQLDeleteStatement.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/visitor/ExportParameterVisitor.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/util/jdbc/ConnectionBase.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/pool/DruidDataSourceC3P0Adapter.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/postgresql/ast/expr/PGTypeCastExpr.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleFileSpecification.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/ast/expr/SQLValuableExpr.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleSelectTableSource.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/dialect/oracle/ast/clause/GroupingSetExpr.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/mock/MockSQLXML.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
 jar/com/alibaba/druid/sql/ast/statement/SQLCallStatement.java
 * /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-

```

jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowKeysStatement.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/proxy/jdbc/PreparedStatementProxyImpl.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/MySQLUseIndexHint.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/support/spring/MBeanServerFactoryBean.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/proxy/jdbc/JdbcParameterTimestamp.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/support/monitor/entity/MonitorApp.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleAlterIndexStatement.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/util/Base64.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLAlterTableDiscardTablespace.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/SQLSetQuantifier.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/proxy/jdbc/JdbcParameterDate.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/Constants.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/support/http/AbstractWebStatImpl.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/builder/SQLSelectBuilder.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/support/http/stat/WebRequestStat.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/db2/ast/DB2StatementImpl.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/pool/xa/DruidPooledXAConnection.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/util/MySQLUtils.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/sqlserver/ast/SQLServerObject.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/expr/OracleAnalytic.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/MySQLIndexHintImpl.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-
jar/com/alibaba/druid/support/profile/ProfileEntryReqStat.java
* /opt/cola/permits/1000716027_1606872832.67/0/druid-1-0-15-sources-jar/com/alibaba/druid/VERSION.java

```

1.21 hk2-utils 2.2.0

1.22 array-flatten 1.1.1 1.1.1

1.22.1 Available under license :

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1.23 bindings 1.3.0 1.3.0

1.23.1 Available under license :

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

node-bindings

=====

Helper module for loading your native module's .node file

This is a helper module for authors of Node.js native addon modules.

It is basically the "swiss army knife" of `require()`ing your native module's `.node` file.`

Throughout the course of Node's native addon history, addons have ended up being compiled in a variety of different places, depending on which build tool and which version of node was used. To make matters worse, now the `_gyp_` build tool can produce either a `_Release_` or `_Debug_` build, each being built into different locations.

This module checks `_all_` the possible locations that a native addon would be built at, and returns the first one that loads successfully.

Installation

Install with ``npm``:

```
``` bash
$ npm install bindings
```
```

Or add it to the ``"dependencies"`` section of your `_package.json_` file.

Example

``require()``ing the proper bindings file for the current node version, platform and architecture is as simple as:

```
``` js
var bindings = require('bindings')('binding.node')

// Use your bindings defined in your C files
bindings.your_c_function()
```
```

Nice Error Output

When the ``.node`` file could not be loaded, `node-bindings`` throws an Error with a nice error message telling you exactly what was tried. You can also check the ``.err.tries`` Array property.

```

```
Error: Could not load the bindings file. Tried:
/Users/nrajlich/ref/build/binding.node
/Users/nrajlich/ref/build/Debug/binding.node
/Users/nrajlich/ref/build/Release/binding.node
/Users/nrajlich/ref/out/Debug/binding.node
/Users/nrajlich/ref/Debug/binding.node
/Users/nrajlich/ref/out/Release/binding.node
/Users/nrajlich/ref/Release/binding.node
/Users/nrajlich/ref/build/default/binding.node
/Users/nrajlich/ref/compiled/0.8.2/darwin/x64/binding.node
```

```
at bindings (/Users/nrajlich/ref/node_modules/bindings/bindings.js:84:13)
at Object.<anonymous> (/Users/nrajlich/ref/lib/ref.js:5:47)
at Module._compile (module.js:449:26)
at Object.Module._extensions..js (module.js:467:10)
at Module.load (module.js:356:32)
at Function.Module._load (module.js:312:12)
...
^^^
```

The searching for the `.node`` file will originate from the first directory in which has a `package.json`` file is found.

License

-----

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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1071118970_1595012394.92/0/node-bindings-1-3-0-tar-gz/node-bindings-1.3.0/README.md
```

## 1.24 rimraf 2.4.5 2.4.5

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## 1.28 kind-of 3.2.2 3.2.2

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Zstd-jni: JNI bindings to Zstd Library

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 \* /opt/cola/permits/211276241\_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/helpers/NOPMDCAdapter.java  
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## 1.43 ecc-jsbn 0.1.1 0.1.1

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## 1.45 **jetty-client 9.3.27.v20190418**

## 1.46 **go-xerial-snappy 776d571**



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## 1.48 protobuf-java 3.7.1

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jar/com/google/protobuf/RpcController.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/google/protobuf/duration.proto
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jar/com/google/protobuf/ProtocolMessageEnum.java
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\* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/DynamicMessage.java  
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\* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/LazyFieldLite.java  
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- \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/IterableByteBufferInputStream.java
- \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/FieldSet.java

## 1.49 javax-inject 2.2.0

# 1.50 negotiator 0.6.1 0.6.1

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# 1.51 groovy-templates 2.4.6

# 1.52 cryptiles 3.1.2 3.1.2

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# 1.54 hppc 0.7.1

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## 1.55 string-width 1.0.2 1.0.2

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 */
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Found in path(s):

```
* /opt/cola/permits/1145228696_1618217528.28/0/jcabi-manifests-1-1-sources-1-
jar/com/jcabi/manifests/StreamsMfs.java
* /opt/cola/permits/1145228696_1618217528.28/0/jcabi-manifests-1-1-sources-1-jar/com/jcabi/manifests/Mfs.java
* /opt/cola/permits/1145228696_1618217528.28/0/jcabi-manifests-1-1-sources-1-
jar/com/jcabi/manifests/ServletMfs.java
* /opt/cola/permits/1145228696_1618217528.28/0/jcabi-manifests-1-1-sources-1-
jar/com/jcabi/manifests/FilesMfs.java
* /opt/cola/permits/1145228696_1618217528.28/0/jcabi-manifests-1-1-sources-1-
jar/com/jcabi/manifests/MfMap.java
* /opt/cola/permits/1145228696_1618217528.28/0/jcabi-manifests-1-1-sources-1-
jar/com/jcabi/manifests/Manifests.java
* /opt/cola/permits/1145228696_1618217528.28/0/jcabi-manifests-1-1-sources-1-jar/com/jcabi/manifests/package-
info.java
* /opt/cola/permits/1145228696_1618217528.28/0/jcabi-manifests-1-1-sources-1-
```

## 1.57 protobuf-java 3.6.0

## 1.58 go-restful v2.4.0

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## 1.59 jcip-annotation 1.0-1

## 1.60 zkclient 0.10

## 1.61 auto-value-annotations 1.6.6

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## 1.62 ms 0.7.1 0.7.1

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## 1.63 animal-sniffer-annotation 1.14

# 1.64 arraybuffer.slice 0.0.7 0.0.7

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# 1.70 golang 1.10.4

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## 1.74 lz4-java 1.6.0

## 1.75 slf4j-log4j 1.7.19

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## 1.76 xtend 2.1.2 2.1.2

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\* /opt/cola/permits/1000715261\_1606873499.35/0/google-auth-library-oauth2-http-0-4-0-sources-1-jar/com/google/auth/oauth2/TokenStore.java

\* /opt/cola/permits/1000715261\_1606873499.35/0/google-auth-library-oauth2-http-0-4-0-sources-1-jar/com/google/auth/oauth2/ServiceAccountJwtAccessCredentials.java

\* /opt/cola/permits/1000715261\_1606873499.35/0/google-auth-library-oauth2-http-0-4-0-sources-1-jar/com/google/auth/oauth2/UserAuthorizer.java

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## 1.78 has-unicode 2.0.1 2.0.1

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## 1.79 babel-plugin-syntax-exponentiation-operator 6.13.0 6.13.0

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## 1.80 iconv-lite 0.4.13 0.4.13

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## 1.83 babel-messages 6.23.0 6.23.0

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## 1.85 lang-mustache-client 7.0.0

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## 4.1.34

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## 1.103 lucene-analyzers-common 8.0.0

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## 1.113 slf4j 1.7.26

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 <title>SLF4J License</title>
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 </head>
 <body>
 <script type="text/javascript">prefix=";</script>

 <script src="templates/header.js" type="text/javascript"></script>
 <div id="left">
 <script src="templates/left.js" type="text/javascript"></script>
 </div>
 <div id="right">
 <script src="templates/right.js" type="text/javascript"></script>
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## 1.115 lucene-spatial3d 8.0.0

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## 1.125 grpc-stub 0.12.0

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```
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* /opt/cola/permits/1001161163_1606871930.8/0/grpc-stub-0-12-0-sources-1-jar/io/grpc/stub/MetadataUtils.java
* /opt/cola/permits/1001161163_1606871930.8/0/grpc-stub-0-12-0-sources-1-jar/io/grpc/stub/ServerCalls.java
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```



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## 1.128 netty-tcnative-boringssl-static 2.0.22

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## 1.129 flink-core 1.8.3

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## 1.136 utils-merge 1.0.0 1.0.0

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Found in path(s):

\* /opt/cola/permits/1001160695\_1606873096.14/0/grpc-auth-0-12-0-sources-1-  
jar/io/grpc/auth/ClientAuthInterceptor.java

## 1.138 base64url 2.0.0 2.0.0

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## 1.140 cookie 0.3.1 0.3.1

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## 1.141 debug 2.2.0 2.2.0

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## 1.142 logrus v1.0.4

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## 1.145 nopt 3.0.6 3.0.6

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

\*/

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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

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jar/org/objectweb/asm/util/TraceAnnotationVisitor.java

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jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java

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jar/org/objectweb/asm/commons/TableSwitchGenerator.java

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jar/org/objectweb/asm/tree/FieldInsnNode.java

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java  
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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Attribute.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/TraceMethodVisitor.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/AnnotationNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/ClassOptimizer.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/CheckSignatureAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/CheckClassAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/CheckFieldAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/FieldVisitor.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/VarInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LabelNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/TryCatchBlockNode.java  
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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/ConstantPool.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Handler.java  
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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnList.java  
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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/Printer.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/AbstractInsnNode.java  
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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnNode.java  
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jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java  
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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/MethodWriter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LdcInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java  
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```
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```

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*/
/**
```

```
* Constructs a new {@link ClassNode}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the {@link #ClassNode(int)}
* version.
*
* @throws IllegalStateException
* If a subclass calls this constructor.
*/
```

Found in path(s):

```
*/opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/ClassNode.java
```

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```
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```

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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/TypeReference.java

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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/xml/Processor.java

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-

jar/org/objectweb/asm/xml/SAXFieldAdapter.java

```
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/xml/SAXCodeAdapter.jar
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
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```
/**
```

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```

```
*/
```

```
/**
```

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

```
*
```

```
* @param typeRef
```

```
* a reference to the annotated type. See {@link TypeReference}.
```

```

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

```

Found in path(s):

```

* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

```

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\* Creates a new { @link AnalyzerAdapter }. *<i>Subclasses must not use this  
\* constructor</i>. Instead, they must use the  
\* { @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor) }  
\* version.  
\*  
\* @param owner  
\*     the owner's class name.  
\* @param access  
\*     the method's access flags (see { @link Opcodes }).  
\* @param name  
\*     the method's name.  
\* @param desc  
\*     the method's descriptor (see { @link Type Type }).  
\* @param mv  
\*     the method visitor to which this adapter delegates calls. May  
\*     be `<tt>null</tt>`.  
\* @throws IllegalStateException  
\*     If a subclass calls this constructor.  
\*/*

Found in path(s):

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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\*/

/\*\*

\* Constructs a new {@link Textifier}. *Subclasses must not use this*  
\* constructor*.* Instead, they must use the {@link #Textifier(int)}  
\* version.  
\*  
\* @throws IllegalStateException  
\* If a subclass calls this constructor.  
\*/

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jar/org/objectweb/asm/signature/package.html  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/package.html  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/package.html  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/tree/analysis/package.html  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/commons/package.html  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/package.html

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resize.properties  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/optimizer/shrink.properties  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-  
signatures.properties  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-  
writer.properties  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-  
frames.properties  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-  
annotations.properties

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*/
/**
 * Creates a new { @link GeneratorAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * { @link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 * the method's access flags (see { @link Opcodes}).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see { @link Type Type}).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

```

Found in path(s):

```

* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
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# 1.147 compression 1.6.2 1.6.2

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# 1.148 annotations 4.1.1.4

# 1.149 helmet-csp 1.2.2 1.2.2

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## 1.151 delegates 1.0.0 1.0.0

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- \* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/SendResponseHeadersCommand.java
- \* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/SendGrpcFrameCommand.java
- \* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/CreateStreamCommand.java
- \* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/NegotiationType.java
- \* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/CancelStreamCommand.java
- \* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/NettyClientHandler.java
- \* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/NettyServerTransport.java
- \* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/NettyChannelBuilder.java
- \* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/CancelClientStreamCommand.java
- \* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/NettyServerBuilder.java
- \* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/NettyServerStream.java
- \* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/NettyServerHandler.java
- \* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/NettyServer.java
- \* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/NettyClientTransport.java
- \* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/NettyReadableBuffer.java
- \* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/Utils.java

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\* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/NettyServerProvider.java  
\* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/package-info.java  
\* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/NettyClientStream.java  
\* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/NettyWritableBuffer.java  
\* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/SendPingCommand.java  
\* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/GoAwayClosedStreamException.java  
\* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/NettyChannelProvider.java  
\* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/BufferingHttp2ConnectionEncoder.java  
\* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/WriteQueue.java  
\* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/AbstractNettyHandler.java  
\* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/JettyTlsUtil.java  
\* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/GrpcSslContexts.java  
\* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/ProtocolNegotiator.java  
\* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/CancelServerStreamCommand.java

\* /opt/cola/permits/1001160635\_1606872034.31/0/grpc-netty-0-12-0-sources-1-jar/io/grpc/netty/NettyWritableBufferAllocator.java

# 1.153 jackson-jaxrs-xml-provider 2.9.10

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## 1.155 netty 4.1.42

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# 1.156 transport-netty4-client 7.0.0

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## 1.157 jaeger-core 0.23.0

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## 1.159 x-xss-protection 1.0.0 1.0.0

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## 1.162 sntp 1.0.9 1.0.9

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## 1.163 engine.io-parser 2.1.2 2.1.2

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## 1.164 require\_optional 1.0.1 1.0.1

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## 1.171 immutable 3.8.2 3.8.2

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 */
```

Found in path(s):

```
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-
jar/com/jayway/jsonpath/InvalidJsonException.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-
jar/com/jayway/jsonpath/InvalidCriteriaException.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-
jar/com/jayway/jsonpath/JsonPathException.java
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jar/com/jayway/jsonpath/ParseContext.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-
jar/com/jayway/jsonpath/Configuration.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-
jar/com/jayway/jsonpath/EvaluationListener.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-
jar/com/jayway/jsonpath/internal/path/RootPathToken.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-
jar/com/jayway/jsonpath/spi/json/JettisonProvider.java
```

\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/CompiledPath.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/WriteContext.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Option.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/PredicatePathToken.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/InvalidPathException.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/Path.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/ArrayPathToken.java  
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\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/PathToken.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/AbstractJsonProvider.java  
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\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/JacksonJsonProvider.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/function/latebinding/JsonLateBindingValue.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/ScanPathToken.java  
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\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/MappingException.java  
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\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/TapestryMappingProvider.java  
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\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/TypeRef.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-

jar/com/jayway/jsonpath/internal/JsonContext.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/EvaluationContext.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/spi/mapper/JacksonMappingProvider.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/DocumentContext.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/spi/json/JsonSmartJsonProvider.java  
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\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
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\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/function/latebinding/ILateBindingValue.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/path/PropertyPathToken.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/spi/json/GsonJsonProvider.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/PathNotFoundException.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/MapFunction.java

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\* /opt/cola/permits/1001160541\_1606872719.35/0/grpc-protobuf-nano-0-12-0-sources-1-jar/io/grpc/protobuf/nano/MessageNanoFactory.java  
\* /opt/cola/permits/1001160541\_1606872719.35/0/grpc-protobuf-nano-0-12-0-sources-1-jar/io/grpc/protobuf/nano/NanoProtoInputStream.java

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## 1.198 animal-sniffer-annotation 1.17

## 1.199 aws-sign2 0.7.0 0.7.0

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# 1.202 raw-body 2.3.2 2.3.2

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## 1.203 j2objc-annotations 1.1

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## 1.206 jline 2.9

## 1.207 frocksdbjni 5.17.2

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## 1.208 proto-google-common-protos 1.12.0

## 1.209 jetty-http-spi 9.3.27.v20190418

## 1.210 path-is-absolute 1.0.1 1.0.1

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## 1.211 after 0.8.2 0.8.2

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\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-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  
\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/ThreadLocalScopeManager.java  
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\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/AutoFinishScopeManager.java

## 1.214 netty-codec 4.1.34

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## 1.217 jsonschema 0.2.3 0.2.3

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To use the validator call the validate function with an instance object and an optional schema object.

If a schema is provided, it will be used to validate. If the instance object refers to a schema (self-validating), that schema will be used to validate and the schema parameter is not necessary (if both exist, both validations will occur).

The validate method will return an array of validation errors. If there are no errors, then an empty list will be returned. A validation error will have two properties:

"property" which indicates which property had the error

"message" which indicates what the error was

\*/

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# 1.218 xpp 1.1.4c

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# 1.220 netty 4.1.30

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## 1.221 googleoauthclientjava 1.20.0

## 1.222 log4j-slf4j-impl 2.8

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## 1.227 osgi-core 6.0.0.201403061837

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## 1.235 protobuf-java 2.4.20

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# 1.238 jsr305 3.0.2

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Found in path(s):

```
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-
```

jar/javax/annotation/concurrent/ThreadSafe.java  
\* /opt/cola/permits/1656638364\_1682593601.2844107/0/jsr305-3-0-2-sources-9-  
jar/javax/annotation/concurrent/NotThreadSafe.java  
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# 1.239 httpcore-nio 4.4.11

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# 1.240 jackson 2.9.10

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## 1.246 fs 0.0.2 0.0.2

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# 1.253 depd 1.1.0 1.1.0

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# 1.254 commons-lang3 3.8.1

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# 1.255 snake-yaml 1.24

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## 1.258 bouncy-castle 1.64

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

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<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>

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</ul>



<p>

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<ul>

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<li>Joel Hockey &lt;joel.hockey&#064;qsipayments.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 UriBase64.</li>
- <li>Graham Coles &lt;graham.coles#064;retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.</li>
- <li>J&ouml;r;n 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;r;n 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;long#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;stefanpuiuro#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&#064pristx.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&#064gmx.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&#064kb.cz&gt; - getNextUpdate patch for OCSP SingleResp.</li>
- <li>Klaus Greve Fiorentini &lt;Klaus&#064cpqd.com.br&gt; - array fix in PGP PublicKeyEncSessionPacket.</li>
- <li>Olivier Refalo &lt;Olivier\_Refalo&#064fpl.com&gt; - null pointer exception fix for JDK 1.3 CMSSignedData objects.</li>
- <li>Mariusz Bandola &lt;mariusz.bandola&#064cryptotech.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&#064transacttools.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&#064haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.</li>
- <li>Jonathan Edwards &lt;s34gull&#064mac.com&gt; - initial support for reading multiple rings from a PGP key file.</li>
- <li>Andrew Thornton &lt;andrew&#064caret.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.</li>
- <li>Gregor Leander &lt;gl&#064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.</li>
- <li>Antoon Bosselaers &lt;Antoon.Bosselaers&#064esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.</li>
- <li>Peter Sylvester &lt;Peter.Sylvester&#064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.</li>
- <li>Doug &lt;ummmmm&#064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.</li>
- <li>Francois Staes &lt;fstaes&#064netconsult.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&#064cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPPKeyPair to fix nullpointer exception.</li>
- <li>Perez Paz Luis Alberto &lt;laperez&#064banxico.org.mx&gt; - patch to use of BitString in X.500 name.</li>
- <li>James Wright &lt;James\_Wright&#064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.</li>
- <li>Jim Ford &lt;jim&#064muirford.com&gt; - 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&#064ponton-consulting.de&gt; - extra aliases for provider.</li>
- <li>Sai Pullabhotla &lt;psai&#064linoma.com&gt; - 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 overead issue in

BCPGInputStream.</li>  
<li>Alpesh Parmar &lt;alps@linuxmail.org>; - patch for class cast problem in  
PGPPublicKey.getSignatures().</li>  
<li>Jay Gengelbach &lt;jengelbach@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 Delgadillo &lt;javi@javi.codewarp.org>; - initial Mozilla PublicKeyAndChallenge classes.</li>  
<li>Joni Hahkala &lt;joni.hahkala@cern.ch>; - initial implementations of VOMS Attribute Certificate  
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egree.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@keynectis.com>; - ANS.1 set sorting. Contributions to TSP  
implementation. Test vectors for Bleichenbacher's forgery attack.</li>  
<li>Atsuhiko Yamanaka &lt;ymnk@jcraft.com>; - 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@reksoft.ru>; - patch for class cast exception in  
AuthorityInformationAccess class.</li>  
<li>Soren Hilmer &lt;soren.hilmer@tietoenator.com>; - patches for CertID with issuerSerial set in TSP  
implementation, additional compliance testing.</li>  
<li>Steve Mitchell &lt;mitchell@intertrust.com>; - 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@seeburger.de>; - initial implementation of ISO 78164-4 padding.</li>  
<li>Julien Pasquier &lt;julienpasquier@free.fr>; - initial implementation of attribute classes from RFC 3126.  
Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>  
<li>Matteo &lt;matartuso@libero.it>; - sequence patch to ASN1Dump.</li>

- <li>Andrew Paterson &lt;andrew.paterson@burnsecs.com>; - patches to PGP tools, isRevoked method on PGPPublicKey.</li>
- <li>Vladimir Molotkov &lt;vladimir.n.molotkov@intel.com>; - extensive provider exception handling compliance testing.</li>
- <li>Florin Kollan &lt;adlocflo@web.de>; - fix to ElGamalKeyParameters equality testing.</li>
- <li>Pavel Vassiliev &lt;paulvas@gmail.com>; - Initial GOST28147Mac implementation.</li>
- <li>Tom Pesman &lt;tom@tnux.net>; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.</li>
- <li>Lukasz Kowalczyk &lt;lukasz.b.kowalczyk@gmail.com>; - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>
- <li>Arndt Hasch &lt;Arndt.Hasch@maxence.de>; - additional fix for partial reading with new style PGP packets.</li>
- <li>Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com>; - fix for 31 byte issue and exception throwing by Whirlpool.</li>
- <li>David M. Lee &lt;dmlee@Crossroads.com>; - 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@embody.org>; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>
- <li>tu-vi cung &lt;t2cung@hotmail.com>; - patch for out of bounds problem in getDecoderStream method.</li>
- <li>Chris Schultz &lt;cschultz@gmail.com>; - fix for InputStream constructor for X509V2AttributeCertificate.</li>
- <li>David M. Lee &lt;dmlee@Crossroads.com>; - implementation assistance with streaming CMS classes.</li>
- <li>Joel Rees &lt;rees@ddcom.co.jp>; - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>
- <li>Francesc Sau &lt;francesc.sau@partners.netfocus.es>; - micro fix for tsp Accuracy class.</li>
- <li>Larry Bugbee &lt;bugbee@mac.com>; - initial ECNR implementation.</li>
- <li>Remi Blancher &lt;Remi.Blancher@keynectis.com>; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>
- <li>Brian O'Rourke &lt;brianorourke@gmail.com>; - patch for signature creation time override in OpenPGP.</li>
- <li>Andreas Schwier &lt;andreas.schwier@cardcontact.de>; - 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@transacttools.net>; - Patch for trailer function in version 2 signature packets.</li>
- <li>Kishimoto Kazuhiko &lt;kazu-k@hi-ho.ne.jp>; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li>
- <li>Lawrence Tan &lt;lwrnctan@gmail.com> - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>
- <li>Carlos Valiente &lt;superdupont@gmail.com>; - 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@bluewin.ch>; - 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 constructor 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@positscience.com>; fix to hashCode for X509CertificateObject.</li>  
<li>Stefan Meyer &lt;stefan.meyer@ewe.de>; backport for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>  
<li>Robert J. Moore &lt;Robert.J.Moore@allanbank.com>; speedups for OpenPGPCFB mode, clean room JCE patches.</li>  
<li>Rui Hodai &lt;rui@po.ntts.co.jp>; speed ups for Camellia implementation, CamelliaLightEngine.</li>  
<li>Emir Bucalovic &lt;emir.bucalovic@mail.com>; initial implementation of Grain-v1 and Grain-128.</li>  
<li>Torbjorn Svensson &lt;tobbe79@gmail.com>; initial implementation of Grain-v1 and Grain-128.</li>  
<li>Paul FitzPatrick &lt;bouncycastle\_pfitz@fitzpatrick.cc>; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>  
<li>Henrik Andersson &lt;k.henrik.andersson@gmail.com>; addition of UniqueIssuerID to certificate generation.</li>  
<li>Cagdas Cirit &lt;cagdasirit@gmail.com>; subjectAlternativeName fix for x509CertStoreSelector.</li>  
<li>Harakiri &lt;harakiri\_23@yahoo.com>; datahandler patch for attached parts in SMIME signatures.</li>  
<li>Pedro Henriques &lt;pmahenriques@gmail.com>; explicit bounds checking for DESKeyGenerator, code simplification for OAPEncoding.</li>  
<li>Lothar Kimminger &lt;job@kimminger.de>; verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.</li>  
<li>Richard Farr &lt;rfarr.se@gmail.com>; initial SRP-6a implementation.</li>  
<li>Thomas Castiglione &lt;castiglione@au.ibm.com>; patch to encoding for CRMF OptionalValidity.</li>  
<li>Elisabetta Romani &lt;eromani@sogei.it>; patch for recognising multiple counter signatures.</li>  
<li>Robin Lundgren &lt;r737lundgren@gmail.com>; CMPCertificate constructor from X509CertificateStructure fix.</li>  
<li>Petr Kadlec &lt;mormegil@centrum.cz>; fix to sign extension key and IV problem in HC-128, HC-256.</li>  
<li>Andreas Antener &lt;antener\_a@gmx.ch>; fix to buffer reset in AsymmetricBufferedBlockCipher.</li>  
<li>Harendra Rawat &lt;hsrawat@yahoo.com>; fix for BERConstructedOctetString.</li>  
<li>Rolf Lindemann &lt;lindemann@trustcenter.de>; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>  
<li>Alex Artamonov &lt;alexart.home@gmail.com>; name look up patch for GOST-2001 parameters.</li>  
<li>Mike Lyons &lt;mlyons@layer7tech.com>; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>  
<li>Chris Cole &lt;chris\_h\_cole@yahoo.com>; identified a problem handling null passwords when loading a BKS keystore.</li>  
<li>Tomas Krivanek &lt;tom@atack.cz>; added checking of Sender header to SignedMailValidator.</li>  
<li>Michael &lt;emfau@t-online.de>; correction of field error in getResponse method in CertRepMessage.</li>  
<li>Trevor Perrin &lt;trevor@cryptography.com>; addition of constant time equals to avoid possible timing attacks.</li>  
<li>Markus Kil&aring;s &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;waynegrant@gmail.com&gt; additional OIDs for PKCS10 and certificate generation support.</li>
- <li>Frank Cornelis &lt;info@frankcornelis.be&gt; additional support classes for CADES, enhancements to OCSP classes.</li>
- <li>Jan Dittberner &lt;jan@dittberner.info&gt; addHeader patch for SMIME generator.</li>
- <li>Bob McGowan &lt;boab.mcgoo@btinternet.com&gt; patch to support different object and mgf digests in PSS signing.</li>
- <li>Ivo Matheis &lt;i.matheis@seeburger.de&gt; fix to padding verification in ISO-9796-1.</li>
- <li>Marco Sandrini &lt;nessche@gmail.com&gt; patch to add IV to ISO9797Alg3Mac.</li>
- <li>Alf Malf &lt;alfmalf@hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.</li>
- <li>Alfonso Massa &lt;alfonso.massa@insiel.it&gt; contributions to CMS time stamp classes.</li>
- <li>Giacomo Boccardo &lt;gboccardo@unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.</li>
- <li>Arnis Tartu &lt;arnis@ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
- <li>Janusz Sikociski &lt;J.Sikocinski@gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.</li>
- <li>Juri Hudolejev &lt;jhudolejev@gmail.com&gt; JavaDoc fix to CMSSignedDataParser.</li>
- <li>Liane Velten &lt;liane.velten@hjp-consulting.com&gt; fine tuning of code for DHParameters validation.</li>
- <li>Shawn Willden &lt;swillden@google.com&gt; additional functionality to PGPKKeyRing.</li>
- <li>Atanas Krachev &lt;akrachev@gmail.com&gt; added support for revocation signatures in OpenPGP.</li>
- <li>Mickael Laiking &lt;mickael.laiking@keynectis.com&gt; initial cut of EAC classes.</li>
- <li>Tim Buktu &lt;tbuktu@hotmail.com&gt; Initial implementation of NTRU signing and encryption.</li>
- <li>Bernd &lt;rbernd@gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.</li>
- <li>Steing Inge Morisbak &lt;stein.inge.morisbak@BEKK.no&gt; Test code for lower case Hex data in PEM headers.</li>
- <li>Andreas Schmid &lt;andreas.schmid@tngtech.com&gt; Additional expiry time check in PGPPublicKeys.</li>
- <li>Phil Steitz &lt;phil.steitz@gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
- <li>Ignat Korchagin &lt;ignat.korchagin@gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li>
- <li>Petar Petrov &lt;p.petrov@bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.</li>
- <li>Daniel Fitzpatrick &lt;daniel.f.nwr@gmail.com&gt; 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&gt;a further patches to deal with multiple providers and PEMReader.</li>
- <li>Ted Shaw &lt;xiao.xj@gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
- <li>Eleriseth &lt;Eleriseth@WPECGLtYbVi8Ri6Y7Vz12Lvd2EUVW99v3yNV3IWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibilty generalisations for EC operations.</li>
- <li>Kenny Root &lt;kenny@the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>
- <li>Maarten Bodewes &lt;maarten.bodewes@gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>

- <li>Philip Clay &lt;pilf\_b&#064yahoo.com&gt; Initial implementation of J-PAKE.</li>
- <li>Brian Carlstrom &lt;bdc&#064carlstrom.com&gt; 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&#064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder</li>
- <li>Sergio Demian Lerner &lt;sergiolerner&#064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.</li>
- <li>Tim Whittington &lt;Tim.Whittington&#064orionhealth.com&gt; 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&#064primekey.se&gt; 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&#064xrm.ru&gt; patch for override of TSP SignerInfo attributes.</li>
- <li>Sergey Tiunov &lt;t5555d&#064gmail.com&gt; initial cut of DVCS classes.</li>
- <li>Damian Kolasa &lt;fatfredyy&#064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.</li>
- <li>Ash Hughes &lt;ashley.hughes&#064blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>
- <li>Daniel Hirscher &lt;dev&#064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.</li>
- <li>Daniele Ricci &lt;daniele.athome&#064gmail.com&gt; 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 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 DiCroce&lt;https://github.com/rdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
- <li>Bj&ouml;rjn Kautler&lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).</li>
- <li>Dominik Sch&uuml;rmann&lt;https://github.com/dschuermann&gt; 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&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for

generic type on RecipientInformationStore.</li>  
<li>Tobias Wagner &lt;tobias.wagner@n-design.de>; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>  
<li>Sergio Giro &lt;sgiro@google.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.org>; 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@gmail.com>; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>  
<li>Benoit Charles &lt;benoit.charles@opentrust.com>; Fix for IES data length check on decryption.</li>  
<li>Niko &lt;nfink95@gmail.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@cryptovision.com>; BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>  
<li>Lukasz Deputat &lt;lukasz.deputat@gmail.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 e 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@gmail.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@grierforensics.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@wpi.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;storajs72@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&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;storojs72&#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 &lt;&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.</li>  
<li>Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>  
<li>Adam Vartanian &lt;https://github.com/flooe&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>  
<li>Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.</li>  
<li>Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>  
<li>Paul Schaub &lt;https://github.com/vanitasvitae&gt; 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

- OAPEncoding and RSACoreEngine.
- MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.
- Andreas Gadermaier &lt;up.gadermaier@gmail.com&gt; initial version of Argon2 PBKDF algorithm.
- 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.
- Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.
- Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.
- Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.
- Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.
- sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.
- Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.
- Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.
- Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes.
- Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.
- Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.
- Moses Palm&eacute;r, TrueSec &lt;Henrik.Palmer@064truesec.se&gt; Additional improvements to constant time comparisons.
- Ren&eacute; Korthaus&lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.
- THausherr&lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.
- Gaylor Bosson&lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.
- gaellalire&lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SExpr.
- im-scooter&lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.
- Nick hitchan&lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.
- dbusche&lt;https://github.com/dbusche&gt; Argon2 optimisations.
- 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.
- Ugochukwu Mmaduekwe&lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.
- Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.
- aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.
- Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.
- vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.
- Tobias Ospelt &gt;tobias@064pentagrid.ch&lt; Identification of 1.63 regression in ASN.1 parsing.

## 1.259 error\_prone\_annotations 2.1.3

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## 1.262 platform 1.3.1 1.3.1

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\* /opt/cola/permits/1126439783\_1611630071.64/0/asm-all-repackaged-2-2-0-b21-sources-  
jar/org/objectweb/asm/commons/StaticInitMerger.java  
\* /opt/cola/permits/1126439783\_1611630071.64/0/asm-all-repackaged-2-2-0-b21-sources-  
jar/org/objectweb/asm/tree/analysis/BasicValue.java  
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jar/org/objectweb/asm/commons/LocalVariablesSorter.java  
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jar/org/objectweb/asm/tree/LineNumberNode.java  
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## 1.265 minimatch 3.0.4 3.0.4

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## 1.267 has-binary 0.1.7 0.1.7

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# 1.268 wtf-8 1.0.0 1.0.0

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## 1.270 jcabi-log 0.14

## 1.271 socket.io 2.0.4 2.0.4

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## 1.272 curator-framework 2.12.0

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# 1.274 oauth-sign 0.8.2 0.8.2

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## 1.275 object-component 0.0.3 0.0.3

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## 1.276 media-typer 0.3.0 0.3.0

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## 1.277 hide-powered-by 1.0.0 1.0.0

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# 1.278 guice 4.2.0

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## 1.280 cryptiles 2.0.5 2.0.5

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# 1.281 inflight 1.0.6 1.0.6

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# 1.283 babel-helper-explode-assignable-expression 6.24.1 6.24.1

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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
* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/ThreadSafe.java
* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-
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# 1.285 component-inherit 0.0.3 0.0.3

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\* [http://gee.cs.oswego.edu/cgi-](http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/main/java/util/concurrent/ThreadLocalRandom.java?view=markup)

[bin/viewcvs.cgi/jsr166/src/main/java/util/concurrent/ThreadLocalRandom.java?view=markup](http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/main/java/util/concurrent/ThreadLocalRandom.java?view=markup)

\*/

Found in path(s):

\* /opt/cola/permits/1145440743\_1616178883.36/0/metrics-core-2-2-0-sources-5-jar/com/yammer/metrics/stats/ThreadLocalRandom.java

# 1.288 percolator-client 7.0.0

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## 1.289 http-errors 1.6.2 1.6.2

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## 1.295 reflections 0.9.10

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com.fasterxml.jackson.dataformat.protobuf.ProtobufFactory

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```
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## ## Overview

This is a multi-module umbrella project for [Jackson](../../jackson) standard binary dataformat backends.

Currently included are:

- \* [Avro](avro/)
- \* [CBOR](cbor/)
- \* [Protobuf](protobuf/)
- \* [Smile](smile/)

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## ## Status

[![Build Status](https://travis-ci.org/FasterXML/jackson-dataformats-binary.svg)](https://travis-ci.org/FasterXML/jackson-dataformats-binary)

## ## More

See [Wiki](../../wiki) for more information (javadocs).

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# 1.297 apr 1.6.5

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

```
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```

From dso/aix/dso.c:

```
* Based on libdl (dlfcn.c/dlfcn.h) which is
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* Jens-Uwe Mager, Helios Software GmbH, Hannover, Germany.
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```

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
Copyright (C) 2000 by Martin Pool <mbp@humblebug.org.au>

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From strings/apr\_snprintf.c:

```
*
* cvt - IEEE floating point formatting routines.
* Derived from UNIX V7, Copyright(C) Caldera International Inc.
*
```

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## 1.298 fast-json-stable-stringify 2.0.0 2.0.0

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- \*/

Found in path(s):

- \* /opt/cola/permits/1000738273\_1646171487.72/0/jcip-annotations-1-0-sources-jar/net/jcip/annotations/ThreadSafe.java
- \* /opt/cola/permits/1000738273\_1646171487.72/0/jcip-annotations-1-0-sources-jar/net/jcip/annotations/NotThreadSafe.java
- \* /opt/cola/permits/1000738273\_1646171487.72/0/jcip-annotations-1-0-sources-jar/net/jcip/annotations/Immutable.java
- \* /opt/cola/permits/1000738273\_1646171487.72/0/jcip-annotations-1-0-sources-jar/net/jcip/annotations/GuardedBy.java

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<html>

<body>

<p>

Class, field, and method level annotations for describing thread-safety policies.

</p>

<p>

Three class-level annotations describe the *intended* thread-safety promises of a class: `@Immutable`, `@ThreadSafe`, and `@NotThreadSafe`. `@Immutable` means that the class is immutable, and implies `@ThreadSafe`. `@NotThreadSafe` is optional; if a class is not annotated as thread-safe, it should be presumed not to be thread-safe, but if you want to make it extra clear, use `@NotThreadSafe`.

</p>

<p>

These annotations are relatively unintrusive and are beneficial to both users and maintainers. Users can see immediately whether a class is thread-safe, and maintainers can see immediately whether thread-safety guarantees must be preserved. Annotations are also useful to a third constituency: tools. Static code-analysis tools may be able to verify that the code complies with the contract indicated by the annotation, such as verifying that a class annotated with `@Immutable` actually is immutable.

</p>

<h2>Field and method annotations</h2>

<p>

The class-level annotations above are part of the public documentation for the class. Other aspects of a class's thread-safety strategy are entirely for maintainers and are not part of its public documentation.

Classes that use locking should document which state variables are guarded with which locks, and which locks are used to guard those variables. A common source of inadvertent non-thread-safety is when a thread-safe class consistently uses locking to guard its state, but is later modified to add either new state variables that are not adequately guarded by locking, or new methods that do not use locking properly to guard the existing state variables. Documenting which variables are guarded by which locks can help prevent both types of omissions.

The `@GuardedBy(lock)` annotation documents that a field or method should be accessed only with a specific lock held.

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Found in path(s):

\* /opt/cola/permits/1000738273\_1646171487.72/0/jcip-annotations-1-0-sources-jar/net/jcip/annotations/package.html

# 1.300 jopt-simple 5.0.4

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\*/

Found in path(s):

- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/AlternativeLongOptionSpec.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParserState.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnconfiguredOptionException.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/AbstractOptionSpec.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/MethodInvokingValueConverter.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionalArgumentOptionSpec.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/DateConverter.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/RegexMatcher.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/ConstructorInvokingValueConverter.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionArgumentConversionException.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Classes.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnavailableOptionException.java

\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionDescriptor.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConversionException.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParser.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Reflection.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnrecognizedOptionException.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Messages.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/NoArgumentOptionSpec.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ParserRules.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/RequiredArgumentOptionSpec.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ArgumentList.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConverter.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/SimpleOptionNameMap.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/MultipleArgumentsForOptionException.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Row.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/NonOptionArgumentSpec.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpecBuilder.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/MissingRequiredOptionsException.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/KeyValuePair.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/AbbreviationMap.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Rows.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Columns.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/IllegalOptionSpecificationException.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Strings.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionMissingRequiredArgumentException.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSet.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ArgumentAcceptingOptionSpec.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/InetAddressConverter.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionException.java  
\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-

```
jar/joptsimple/BuiltinHelpFormatter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/OptionSpecTokenizer.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/internal/ReflectionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/internal/OptionNameMap.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/HelpFormatter.java
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```

```
/*
```

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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/util/EnumConverter.java
```

## 1.301 methods 1.1.2 1.1.2

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## 1.302 metrics-jetty 3.1.0

## 1.303 string\_decoder 1.0.3 1.0.3

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""

## 1.304 loose-envify 1.3.1 1.3.1

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# 1.305 checker-compatible-qual 2.0.0

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## 1.307 dashify 0.2.2 0.2.2

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## 1.308 extsprintf 1.3.0 1.3.0

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# 1.310 opencensus-contrib-grpc-metrics 0.21.0

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## 1.326 javassist 3.18.2

## 1.327 grpc-all 0.12.0

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## 1.328 buffer-shims 1.0.0 1.0.0

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## 1.329 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 "";
}

```

## 1.330 logback-core 1.1.7

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## 1.331 jcabi-manifests 1.1

## 1.332 jackson-dataformat-csv 2.10.1

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jseward@acm.org

bzip2/libbzip2 version 1.0.2 of 30 December 2001

/\*

minibz2

libbz2.dll test program.

by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)

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* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/ConstantDynamic.java
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-
jar/org/objectweb/asm/signature/SignatureVisitor.java
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jar/org/objectweb/asm/signature/SignatureWriter.java
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* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/Label.java
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# 1.359 groovyjsr 2.4.6

# 1.360 set-blocking 2.0.0 2.0.0

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- \* /opt/cola/permits/1000864524\_1646171528.06/0/t-digest-3-2-sources-jar/com/tdunning/math/stats/FloatHistogram.java
- \* /opt/cola/permits/1000864524\_1646171528.06/0/t-digest-3-2-sources-jar/com/tdunning/math/stats/AVLTreeDigest.java
- \* /opt/cola/permits/1000864524\_1646171528.06/0/t-digest-3-2-sources-

jar/com/tdunning/math/stats/MergingDigest.java  
\* /opt/cola/permits/1000864524\_1646171528.06/0/t-digest-3-2-sources-  
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\* /opt/cola/permits/1000864524\_1646171528.06/0/t-digest-3-2-sources-jar/com/tdunning/math/stats/Simple64.java  
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\* /opt/cola/permits/1000864524\_1646171528.06/0/t-digest-3-2-sources-  
jar/com/tdunning/math/stats/AbstractTDigest.java  
\* /opt/cola/permits/1000864524\_1646171528.06/0/t-digest-3-2-sources-jar/com/tdunning/math/stats/Centroid.java

# 1.362 siddhi-execution-regex 5.0.1

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\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/ServerServiceDefinition.java

\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/GrpcUtil.java

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\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/CompositeReadableBuffer.java

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\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/ClientTransport.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/ClientTransportFactory.java

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* /opt/cola/permits/1001160299_1606871947.12/0/grpc-core-0-12-0-sources-1-
jar/io/grpc/internal/AbstractManagedChannelImplBuilder.java
* /opt/cola/permits/1001160299_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/Stream.java
* /opt/cola/permits/1001160299_1606871947.12/0/grpc-core-0-12-0-sources-1-
jar/io/grpc/internal/AbstractServerImplBuilder.java
* /opt/cola/permits/1001160299_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/Channel.java
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```

```
*/
```

```
/**
```

```
* Frees any resources associated with this stream. Subclass implementations must call this
* version.
```

```
*
```

```
* <p> NOTE: Can be called by both the transport thread and the application thread. Transport
* threads need to dispose when the remote side has terminated the stream. Application threads
* will dispose when the application decides to close the stream as part of normal processing.
```

```
*/
```

Found in path(s):

\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/AbstractStream.java

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\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/inprocess/InProcessServerBuilder.java

\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/AbstractReferenceCounted.java

\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/NameResolver.java

\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/BlankFutureProvider.java

\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/ForwardingClientCallListener.java

\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/DnsNameResolver.java

\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/Context.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/SimpleLoadBalancerFactory.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/package-info.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/package-info.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/EquivalentAddressGroup.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/StatusException.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/DnsNameResolverFactory.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/ForwardingServerCallListener.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/ServerBuilder.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/ReferenceCounted.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/NoopClientStream.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/Compressor.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/ServerCallImpl.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/ForwardingClientCall.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/inprocess/InProcessServer.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/CompressorRegistry.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/Http2Ping.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/DecompressorRegistry.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/ForwardingServerCall.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/ManagedChannelProvider.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/BackoffPolicy.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/SerializeReentrantCallsDirectExecutor.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/SingleTransportChannel.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/LoadBalancer.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/StatusRuntimeException.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/CallOptions.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/TransportSet.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/DelayedStream.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/Server.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-

jar/io/grpc/ManagedChannelBuilder.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/ServerProvider.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/inprocess/InProcessChannelBuilder.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/ServerTransport.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/NameResolverRegistry.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/inprocess/InProcessTransport.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/Decompressor.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/inprocess/package-info.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/WritableBufferAllocator.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/ContextRunnable.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/ExperimentalApi.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/RequestKey.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/ResolvedServerInfo.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/Attributes.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/TransportManager.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/Internal.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/Codec.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/Contexts.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/ManagedChannel.java  
\* /opt/cola/permits/1001160299\_1606871947.12/0/grpc-core-0-12-0-sources-1-jar/io/grpc/internal/ExponentialBackoffPolicy.java

# 1.364 akka 2.4.20

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## 1.366 debug 2.3.3 2.3.3

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## 1.368 hk2-locator 2.2.0

## 1.369 mime-pull 1.9.3

## 1.370 kryo-shaded 3.0.1

## 1.371 uws 0.14.5 0.14.5

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## 1.372 block-stream 0.0.9 0.0.9

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## 1.373 reflectasm 1.10.1

## 1.374 snappy-java 1.1.7.1

## 1.375 tweetnacl 0.14.5 0.14.5

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## 1.376 thrift 0.9.2

## 1.377 httpcomponents-client 4.5.7

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# 1.379 google-auth-library-credentials 0.13.0

## 1.380 guava 26.0

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# 1.382 asm 5.0.3

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```

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

```

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/\*\*

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

\*

\* [@param typeRef](#)  
\* a reference to the annotated type. See {[@link TypeReference](#)}.

\* [@param typePath](#)  
\* the path to the annotated type argument, wildcard bound, array  
\* element type, or static inner type within 'typeRef'. May be  
\* `<tt>null</tt>` if the annotation targets 'typeRef' as a whole.

\* [@param start](#)  
\* the first instructions corresponding to the continuous ranges  
\* that make the scope of this local variable (inclusive).

\* [@param end](#)  
\* the last instructions corresponding to the continuous ranges  
\* that make the scope of this local variable (exclusive). This  
\* array must have the same size as the 'start' array.

\* [@param index](#)  
\* the local variable's index in each range. This array must have  
\* the same size as the 'start' array.

\* [@param desc](#)  
\* the class descriptor of the annotation class.

\*/

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jar/org/objectweb/asm/xml/SAXAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java  
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jar/org/objectweb/asm/xml/SAXFieldAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/xml/Processor.java  
\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/xml/SAXClassAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/xml/ASMContentHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/xml/SAXCodeAdapter.java

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/\*\*

\* Constructs a new {@link ClassNode}. *Subclasses must not use this  
\* constructor*. Instead, they must use the {@link #ClassNode(int)}  
\* version.

\*

\* @throws IllegalStateException

\* If a subclass calls this constructor.

\*/

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*/
/**
 * Creates a new {@link GeneratorAdapter}. Subclasses must not use this
 * constructor. Instead, they must use the
 * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 * the method's access flags (see {@link Opcodes}).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see {@link Type Type}).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

```

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```

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\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/TypePath.java  
\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/TypeReference.java

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\*/

/\*\*

\* Creates a new { @link AnalyzerAdapter}. <i>Subclasses must not use this  
\* constructor</i>. Instead, they must use the  
\* { @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}  
\* version.  
\*  
\* @param owner  
\* the owner's class name.  
\* @param access  
\* the method's access flags (see { @link Opcodes}).  
\* @param name  
\* the method's name.  
\* @param desc  
\* the method's descriptor (see { @link Type Type}).  
\* @param mv  
\* the method visitor to which this adapter delegates calls. May  
\* be <tt>null</tt>.  
\* @throws IllegalStateException  
\* If a subclass calls this constructor.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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*/
/**
 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #Textifier(int)}
 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/util/Textifier.java

```

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```
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/shrink-frames.properties
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/shrink-writer.properties
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/shrink-resize.properties
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/shrink-annotations.properties
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/shrink-signatures.properties
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/shrink.properties
```

# 1.383 disruptor 3.4.2.wso2v1

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\* /opt/cola/permits/1007271819\_1646171708.51/0/google-http-client-jackson-1-22-0-sources-jar/com/google/api/client/json/jackson/JacksonFactory.java

\* /opt/cola/permits/1007271819\_1646171708.51/0/google-http-client-jackson-1-22-0-sources-jar/com/google/api/client/json/jackson/package-info.java



\* /opt/cola/permits/1007271819\_1646171708.51/0/google-http-client-jackson-1-22-0-sources-jar/com/google/api/client/json/jackson/JacksonParser.java  
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* /opt/cola/permits/1144317994_1615901294.97/0/netty-common-4-1-42-final-sources-2-
jar/io/netty/util/AbstractReferenceCounted.java
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- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/internal/OutOfDirectMemoryError.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/concurrent/RejectedExecutionHandler.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/internal/MacAddressUtil.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/ResourceLeakDetectorFactory.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/internal/logging/Log4J2Logger.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/internal/SocketUtils.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/concurrent/PromiseCombiner.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/internal/PromiseNotificationUtil.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/internal/ConstantTimeUtils.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/internal/UnstableApi.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/ResourceLeakTracker.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/IntSupplier.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/internal/NativeLibraryUtil.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/concurrent/OrderedEventExecutor.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/DomainNameMappingBuilder.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/internal/ThrowableUtil.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/BooleanSupplier.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java

\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java

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jar/io/netty/util/internal/ReflectionUtil.java
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jar/io/netty/util/internal/EmptyPriorityQueue.java
* /opt/cola/permits/1144317994_1615901294.97/0/netty-common-4-1-42-final-sources-2-
jar/io/netty/util/SuppressForbidden.java
* /opt/cola/permits/1144317994_1615901294.97/0/netty-common-4-1-42-final-sources-2-
jar/io/netty/util/NettyRuntime.java
* /opt/cola/permits/1144317994_1615901294.97/0/netty-common-4-1-42-final-sources-2-
jar/io/netty/util/UncheckedBooleanSupplier.java
* /opt/cola/permits/1144317994_1615901294.97/0/netty-common-4-1-42-final-sources-2-
jar/io/netty/util/internal/PriorityQueue.java
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jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
* /opt/cola/permits/1144317994_1615901294.97/0/netty-common-4-1-42-final-sources-2-
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- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/AttributeKey.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/concurrent/GlobalEventExecutor.java
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- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/NetUtil.java
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- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/internal/package-info.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/concurrent/EventExecutorGroup.java
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- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
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- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/TimerTask.java
- \* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/Timer.java
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\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-  
jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java  
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jar/io/netty/util/Signal.java  
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jar/io/netty/util/IllegalReferenceCountException.java  
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jar/io/netty/util/internal/logging/Slf4JLogger.java  
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jar/io/netty/util/internal/logging/AbstractInternalLogger.java  
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jar/io/netty/util/Attribute.java  
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jar/io/netty/util/DefaultAttributeMap.java  
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\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/internal/DefaultPriorityQueue.java  
\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/HashingStrategy.java  
\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/internal/PriorityQueueNode.java  
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\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/internal/logging/CommonsLogger.java  
\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/internal/logging/JdkLogger.java  
\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/internal/logging/Log4JLogger.java

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\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/collection/ShortCollections.java  
\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/collection/ByteObjectHashMap.java  
\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/collection/IntObjectHashMap.java  
\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/collection/ShortObjectMap.java  
\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/collection/ByteCollections.java  
\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/collection/CharCollections.java

\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/collection/CharObjectMap.java  
\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/collection/IntObjectMap.java  
\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/collection/ShortObjectHashMap.java  
\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/collection/ByteObjectMap.java  
\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/collection/IntCollections.java  
\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/internal/ObjectUtil.java  
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\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/collection/LongObjectMap.java  
\* /opt/cola/permits/1144317994\_1615901294.97/0/netty-common-4-1-42-final-sources-2-jar/io/netty/util/collection/LongObjectHashMap.java

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## 1.406 xml-extensions 1.20.0



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# 1.408 buffer-equal-constant-time 1.0.1 1.0.1

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## 1.409 invariant 2.2.2 2.2.2

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## 1.433 httpcomponents-httpcore 4.2.4

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## 1.435 commons-lang3 3.6

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\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-  
jar/net/sf/cglib/core/DuplicatesPredicate.java  
\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-  
jar/net/sf/cglib/transform/impl/InterceptFieldCallback.java  
\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-  
jar/net/sf/cglib/transform/impl/AddDelegateTransformer.java  
\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/beans/FixedKeySet.java  
\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-  
jar/net/sf/cglib/transform/impl/InterceptFieldTransformer.java  
\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/util/ParallelSorter.java  
\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-  
jar/net/sf/cglib/transform/TransformingClassGenerator.java  
\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/core/Customizer.java  
\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-  
jar/net/sf/cglib/transform/impl/InterceptFieldEnabled.java

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jar/net/sf/cglib/proxy/InterfaceMaker.java  
\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/core/MethodInfo.java  
\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/transform/impl/AbstractInterceptFieldCallback.java  
\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/transform/impl/AddInitTransformer.java  
\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/core/ClassInfo.java  
\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/proxy/MixinEverythingEmitter.java  
\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/proxy/CallbackInfo.java  
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\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/core/RejectModifierPredicate.java  
\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/core/MethodInfoTransformer.java  
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jar/net/sf/cglib/proxy/InvocationHandlerGenerator.java
* /opt/cola/permits/1001160594_1611178906.78/0/cglib-2-2-0-b21-sources-
jar/net/sf/cglib/proxy/DispatcherGenerator.java
* /opt/cola/permits/1001160594_1611178906.78/0/cglib-2-2-0-b21-sources-
jar/net/sf/cglib/beans/BeanMapEmitter.java
* /opt/cola/permits/1001160594_1611178906.78/0/cglib-2-2-0-b21-sources-
jar/net/sf/cglib/beans/BulkBeanEmitter.java
* /opt/cola/permits/1001160594_1611178906.78/0/cglib-2-2-0-b21-sources-
jar/net/sf/cglib/core/AbstractClassGenerator.java
* /opt/cola/permits/1001160594_1611178906.78/0/cglib-2-2-0-b21-sources-
jar/net/sf/cglib/beans/ImmutableBean.java
* /opt/cola/permits/1001160594_1611178906.78/0/cglib-2-2-0-b21-sources-
jar/net/sf/cglib/core/DebuggingClassWriter.java
* /opt/cola/permits/1001160594_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/reflect/FastMethod.java
* /opt/cola/permits/1001160594_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/core/EmitUtils.java
* /opt/cola/permits/1001160594_1611178906.78/0/cglib-2-2-0-b21-sources-
jar/net/sf/cglib/proxy/LazyLoaderGenerator.java
* /opt/cola/permits/1001160594_1611178906.78/0/cglib-2-2-0-b21-sources-
jar/net/sf/cglib/reflect/MethodDelegate.java
* /opt/cola/permits/1001160594_1611178906.78/0/cglib-2-2-0-b21-sources-
jar/net/sf/cglib/transform/ClassTransformerChain.java
* /opt/cola/permits/1001160594_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/reflect/FastClass.java
* /opt/cola/permits/1001160594_1611178906.78/0/cglib-2-2-0-b21-sources-
jar/net/sf/cglib/proxy/MethodInterceptorGenerator.java
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* /opt/cola/permits/1001160594_1611178906.78/0/cglib-2-2-0-b21-sources-
jar/net/sf/cglib/core/VisibilityPredicate.java
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\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/transform/impl/AddStaticInitTransformer.java  
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\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/core/MethodWrapper.java  
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\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/proxy/FixedValueGenerator.java  
\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/proxy/NoOpGenerator.java  
\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/proxy/Mixin.java  
\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/reflect/FastClassEmitter.java  
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\* /opt/cola/permits/1001160594\_1611178906.78/0/cglib-2-2-0-b21-sources-jar/net/sf/cglib/proxy/MethodProxy.java  
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jar/org/locationtech/spatial4j/io/LegacyShapeWriter.java
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\* /opt/cola/permits/1000876689\_1646171537.77/0/spatial4j-0-7-sources-  
jar/org/locationtech/spatial4j/shape/impl/BufferedLine.java  
\* /opt/cola/permits/1000876689\_1646171537.77/0/spatial4j-0-7-sources-  
jar/org/locationtech/spatial4j/shape/impl/BufferedLineString.java  
\* /opt/cola/permits/1000876689\_1646171537.77/0/spatial4j-0-7-sources-  
jar/org/locationtech/spatial4j/io/BinaryCodec.java  
\* /opt/cola/permits/1000876689\_1646171537.77/0/spatial4j-0-7-sources-  
jar/org/locationtech/spatial4j/io/jts/JtsBinaryCodec.java  
\* /opt/cola/permits/1000876689\_1646171537.77/0/spatial4j-0-7-sources-  
jar/org/locationtech/spatial4j/shape/impl/Range.java  
\* /opt/cola/permits/1000876689\_1646171537.77/0/spatial4j-0-7-sources-  
jar/org/locationtech/spatial4j/context/jts/DatelineRule.java  
\* /opt/cola/permits/1000876689\_1646171537.77/0/spatial4j-0-7-sources-  
jar/org/locationtech/spatial4j/shape/impl/InfBufLine.java  
\* /opt/cola/permits/1000876689\_1646171537.77/0/spatial4j-0-7-sources-  
jar/org/locationtech/spatial4j/context/jts/ValidationRule.java



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```
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jar/org/locationtech/spatial4j/io/WktShapeParser.java
* /opt/cola/permits/1000876689_1646171537.77/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/WKTReader.java
```

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\* /opt/cola/permits/1000876689\_1646171537.77/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/SpatialPredicate.java  
\* /opt/cola/permits/1000876689\_1646171537.77/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/exception/UnsupportedSpatialPredicate.java  
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\* /opt/cola/permits/1000876689\_1646171537.77/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/io/PolyshapeWriter.java  
\* /opt/cola/permits/1000876689\_1646171537.77/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/io/jts/JtsPolyshapeWriter.java  
\* /opt/cola/permits/1000876689\_1646171537.77/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/io/ParseUtils.java  
\* /opt/cola/permits/1000876689\_1646171537.77/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/io/PolyshapeReader.java  
\* /opt/cola/permits/1000876689\_1646171537.77/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/distance/DistanceUtils.java

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Found in path(s):

\* /opt/cola/permits/1000876689\_1646171537.77/0/spatial4j-0-7-sources-jar/overview.html

# 1.448 guava 25.1

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## 1.450 http-errors 1.5.1 1.5.1

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```
*/opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/MustBeClosed.java
*/opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/FormatString.java
*/opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/RestrictedApi.java
*/opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/CompatibleWith.java
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\* /opt/cola/permits/1007294135\_1646171712.95/0/error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/DoNotCall.java  
\* /opt/cola/permits/1007294135\_1646171712.95/0/error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/CheckReturnValue.java  
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- \* /opt/cola/permits/1007294135\_1646171712.95/0/error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
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- \* /opt/cola/permits/1007294135\_1646171712.95/0/error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/SuppressPackageLocation.java
- \* /opt/cola/permits/1007294135\_1646171712.95/0/error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/ForOverride.java
- \* /opt/cola/permits/1007294135\_1646171712.95/0/error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/Var.java
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- \* /opt/cola/permits/1007294135\_1646171712.95/0/error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/IncompatibleModifiers.java

## 1.452 ajv 5.5.2 5.5.2

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/**
 * This 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/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/ast/IdeErrorReporter.java
```

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```
/*
```

```

* @(#)TreeTableModelAdapter.java 1.2 98/10/27
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jar/org/mozilla/javascript/optimizer/Optimizer.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/annotations/JSConstructor.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/annotations/JSFunction.java

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\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/annotations/JStaticFunction.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/commonjs/module/provider/SoftCachingModuleScriptProvider.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/commonjs/module/provider/URLConnectionExpiryCalculator.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/commonjs/module/provider/UrlModuleSourceProvider.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/SecureCaller.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/commonjs/module/provider/CachingModuleScriptProviderBase.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/commonjs/module/ModuleScript.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/xmlimpl/XmlProcessor.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/optimizer/OptRuntime.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/xmlimpl/XmlNode.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/annotations/JGetter.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/commonjs/module/provider/URLConnectionSecurityDomainProvider.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/StackStyle.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/commonjs/module/RequireBuilder.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/commonjs/module/provider/ParsedContentType.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/optimizer/OptFunctionNode.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/optimizer/OptTransformer.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/annotations/JSetter.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/tools/jsc/Main.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/commonjs/module/provider/ModuleSource.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/commonjs/module/Require.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/optimizer/Block.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/commonjs/module/provider/ModuleSourceProviderBase.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/commonjs/module/ModuleScope.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-

```
jar/org/mozilla/javascript/commonjs/module/ModuleScriptProvider.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/commonjs/module/provider/ModuleSourceProvider.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/tools/SourceReader.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/commonjs/module/provider/StrongCachingModuleScriptProvider.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/PolicySecurityController.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/ScriptStackElement.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/DefiningClassLoader.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/commonjs/module/provider/DefaultURLConnectionExpiryCalculator.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/commonjs/module/provider/MultiModuleScriptProvider.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/tools/shell/ShellConsole.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/RhinoSecurityManager.java
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* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/tools/idswitch/SwitchGenerator.java
```

```
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/IdScriptableObject.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/tools/idswitch/Main.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/NativeMath.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/json/JsonParser.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/tools/idswitch/CodePrinter.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/tools/idswitch/FileBody.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/tools/idswitch/IdValuePair.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/NativeJSON.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/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
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```

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* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
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```

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// throws a special exception. This ensures execution of all pending

```

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* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/v8dtoa/DiyFp.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/v8dtoa/FastDtoa.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/v8dtoa/DoubleHelper.java
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-
jar/org/mozilla/javascript/v8dtoa/CachedPowers.java
```

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*****/
```

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```
* /opt/cola/permits/1005120616_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/DToA.java
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```
/*
* @(#)JTreeTable.java 1.2 98/10/27
*
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```



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jar/org/mozilla/javascript/tools/debugger/treetable/JTreeTable.java

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 jar/org/mozilla/javascript/tools/debugger/treetable/AbstractCellEditor.java  
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 jar/org/mozilla/javascript/ast/XmlElemRef.java  
 \* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
 jar/org/mozilla/javascript/ast/TryStatement.java  
 \* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
 jar/org/mozilla/javascript/tools/debugger/Main.java  
 \* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
 jar/org/mozilla/javascript/tools/shell/ShellLine.java  
 \* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
 jar/org/mozilla/javascript/ast/ConditionalExpression.java  
 \* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/ConsString.java  
 \* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
 jar/org/mozilla/javascript/RefCallable.java  
 \* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
 jar/org/mozilla/javascript/jdk13/VMBridge\_jdk13.java  
 \* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
 jar/org/mozilla/classfile/ClassFileWriter.java  
 \* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
 jar/org/mozilla/javascript/ScriptRuntimeES6.java

\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/Script.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/ast/Scope.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/ContextListener.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/ast/CatchClause.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/ast/FunctionCall.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/ast/DoLoop.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/NativeJavaClass.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/ast/ErrorNode.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/ast/EmptyExpression.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/ast/AstRoot.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/BoundFunction.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/regexp/NativeRegExp.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/xmlimpl/XMLObjectImpl.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/RegExpProxy.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/ES6Iterator.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/DefaultErrorReporter.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/ast/UnaryExpression.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/regexp/RegExpImpl.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/NativeWith.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/typedarrays/NativeDataView.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/xmlimpl/QName.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/ast/Label.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/ast/ScriptNode.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/NativeString.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/regexp/SubString.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/ast/GeneratorExpressionLoop.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/ast/ErrorCollector.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-

jar/org/mozilla/javascript/Synchronizer.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/ast/Symbol.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/SpecialRef.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/RhinoException.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/typedarrays/NativeFloat64Array.java  
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\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/xmlimpl/XML.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/SecurityUtilities.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/optimizer/ClassCompiler.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/NativeJavaArray.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/TokenStream.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/ast/SwitchCase.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/ast/GeneratorExpression.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/xmlimpl/XMLName.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/tools/debugger/GuiCallback.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/typedarrays/NativeInt16Array.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/Interpreter.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-

jar/org/mozilla/javascript/ast/ExpressionStatement.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/ast/RegExpLiteral.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/NativeContinuation.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/xml/XMLLib.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/GeneratedClassLoader.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/tools/shell/JavaPolicySecurity.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/JavaMembers.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/ast/LabeledStatement.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/FunctionObject.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/Context.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/ast/ReturnStatement.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/ObjToIntMap.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/typedarrays/NativeTypedArrayIterator.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/ast/ContinueStatement.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/ast/ObjectProperty.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/debug/DebugFrame.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/InterpreterData.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/ast/Jump.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/SymbolScriptable.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/typedarrays/NativeUint8ClampedArray.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/IdFunctionCall.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/WrapFactory.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/typedarrays/NativeInt32Array.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/Undefined.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/NativeArray.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-  
jar/org/mozilla/javascript/xmlimpl/Namespace.java

\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/xml/XMLObject.java  
\* /opt/cola/permits/1005120616\_1606874013.46/0/rhino-1-7-7-2-sources-jar/org/mozilla/javascript/Token.java

## 1.454 backo2 1.0.2 1.0.2

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## 1.455 stax-api 1.0.1

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## 1.456 jersey-bean-validation 2.5.1

## 1.457 grpc-core 1.21.0

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```

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```
* /opt/cola/permits/1110745825_1606848362.54/0/st4-4-0-8-sources-1-
jar/org/stringtemplate/v4/misc/TypeRegistry.java
```

```
* /opt/cola/permits/1110745825_1606848362.54/0/st4-4-0-8-sources-1-
jar/org/stringtemplate/v4/misc/AmbiguousMatchException.java
```

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```
*/
```

```

/** Build an AST from a single StringTemplate template */
parser grammar STParser;

options {
 language=Java;
 tokenVocab=STLexer;
 TokenLabelType=CommonToken;
 output=AST;
 ASTLabelType=CommonTree;
}

tokens {
 EXPR; OPTIONS; PROP; PROP_IND; INCLUDE; INCLUDE_IND; EXEC_FUNC; INCLUDE_SUPER;
 INCLUDE_SUPER_REGION; INCLUDE_REGION; TO_STR; LIST; MAP; ZIP; SUBTEMPLATE; ARGS;
 ELEMENTS; REGION; NULL; INDENTED_EXPR;
}

@header {
 package org.stringtemplate.v4.compiler;
 import org.stringtemplate.v4.misc.ErrorManager;
 import org.stringtemplate.v4.misc.ErrorType;
}

@members {
 ErrorManager errMgr;
 Token templateToken;
 public STParser(TokenStream input, ErrorManager errMgr, Token templateToken) {
 this(input);
 this.errMgr = errMgr;
 this.templateToken = templateToken;
 }
 @Override
 protected Object recoverFromMismatchedToken(IntStream input, int ttype, BitSet follow)
 throws RecognitionException
 {
 throw new MismatchedTokenException(ttype, input);
 }
}

@rulecatch {
 catch (RecognitionException re) { throw re; }
}

templateAndEOF : template EOF -> template? ;

template : element* ;

element

```

```

: {input.LT(1).getCharPositionInLine()==0}? INDENT? COMMENT NEWLINE -> // throw away
| INDENT singleElement -> ^(INDENTED_EXPR INDENT singleElement?) // singleElement is optional to handle
error returning nil
| singleElement
| compoundElement
;

```

```

singleElement
: exprTag
| TEXT
| NEWLINE
| COMMENT! // throw away
;

```

```

compoundElement
: ifstat
| region
;

```

```

exprTag
: LDELIM expr (';' exprOptions)? RDELIM
-> ^(EXPR[$LDELIM,"EXPR"] expr exprOptions?)
;

```

```

region
@init {Token indent=null;}
: i=INDENT? x=LDELIM '@' ID RDELIM {if (input.LA(1)!=NEWLINE) indent=$i;}
template
INDENT? LDELIM '@end' RDELIM
// kill \n for <@end> on line by itself if multi-line embedded region
({ $region.start.getLine() != input.LT(1).getLine() }? => NEWLINE)?
-> {indent != null}?
 ^(INDENTED_EXPR $i ^(REGION[$x] ID template?))
->
 ^(REGION[$x] ID template?)
;

```

```

subtemplate
: lc='{ (ids+= ID (',' ids+= ID)* '|')? template INDENT? }'
// ignore final INDENT before } as it's not part of outer indent
-> ^(SUBTEMPLATE[$lc,"SUBTEMPLATE"] ^(ARGS $ids)* template?)
;

```

```

ifstat
@init {Token indent=null;}
: i=INDENT? LDELIM 'if' '(' c1=conditional ')' RDELIM {if (input.LA(1)!=NEWLINE) indent=$i;}
t1=template
(INDENT? LDELIM 'elseif' '(' c2+=conditional ')' RDELIM t2+=template)*
(INDENT? LDELIM 'else' RDELIM t3=template)?

```

```

 INDENT? endif= LDELIM 'endif'
RDELIM
// kill \n for <endif> on line by itself if multi-line IF
({ $ifstat.start.getLine() != input.LT(1).getLine() }? => NEWLINE)?
-> { indent != null }?
 ^ (INDENTED_EXPR $i ^ ('if' $c1 $t1? ^ ('elseif' $c2 $t2)* ^ ('else' $t3?)?))
-> ^ ('if' $c1 $t1? ^ ('elseif' $c2 $t2)* ^ ('else' $t3?)?)
;

conditional
scope {
 boolean inside;
}
: andConditional ('!' ^ andConditional)*
;

andConditional : notConditional ('&&' ^ notConditional)* ;

notConditional
: '!' ^ notConditional
| memberExpr
;

notConditionalExpr
: (ID -> ID)
(p = '!' prop = ID -> ^ (PROP[$p, "PROP"] $notConditionalExpr $prop)
| p = '!' (' mapExpr ') -> ^ (PROP_IND[$p, "PROP_IND"] $notConditionalExpr mapExpr)
)*
;

exprOptions : option (',' option)* -> ^ (OPTIONS option*) ;

option
@init {
 String id = input.LT(1).getText();
 String defVal = Compiler.defaultOptionValues.get(id);
 boolean validOption = Compiler.supportedOptions.get(id) != null;
}
: ID
{
 if (!validOption) {
 errMgr.compileTimeError(ErrorType.NO_SUCH_OPTION, templateToken, $ID, $ID.text);
 }
}
('=' exprNoComma -> { validOption } ? ^ ('=' ID exprNoComma)
->
| {
 if (defVal == null) {

```

```

errMgr.compileTimeError(ErrorType.NO_DEFAULT_VALUE, templateToken, $ID);
}
}
-> {validOption&&defVal!=null}?
 ^(EQUALS["="] ID STRING[$ID,""+defVal+""])
->
)
;

exprNoComma
: memberExpr
(':' mapTemplateRef -> ^(MAP memberExpr mapTemplateRef
| -> memberExpr
)
)
;

expr : mapExpr ;

// more complicated than necessary to avoid backtracking, which ruins
// error handling
mapExpr
: memberExpr
((c=',' memberExpr)+ col=':' mapTemplateRef
-> ^(ZIP[$col] ^(ELEMENTS memberExpr+) mapTemplateRef)
| -> memberExpr
)
({if ($x!=null) $x.clear();} // don't keep queueing x; new list for each iteration
col=':' x+=mapTemplateRef ({ $c==null }?=> ',' x+=mapTemplateRef)*)
-> ^(MAP[$col] $mapExpr $x+)
)*
;

/**
expr:template(args) apply template to expr
expr:{ arg | ... } apply subtemplate to expr
expr:(e)(args) convert e to a string template name and apply to expr
*/
mapTemplateRef
: ID '(' args ')' -> ^(INCLUDE ID args?)
| subtemplate
| lp='(' mapExpr rp=')' '(' argExprList? ')' -> ^(INCLUDE_IND mapExpr argExprList?)
;

memberExpr
: (includeExpr->includeExpr)
(p=':' ID -> ^(PROP[$p,"PROP"] $memberExpr ID)
| p=':' '(' mapExpr ')' -> ^(PROP_IND[$p,"PROP_IND"] $memberExpr mapExpr)
)*

```



```

;

includeExpr
options {k=2;} // prevent full LL(*), which fails, falling back on k=1; need k=2
: {Compiler.funcs.containsKey(input.LT(1).getText())? // predefined function
 ID (' expr? ') -> ^(EXEC_FUNC ID expr?)
| 'super' ! ID (' args ') -> ^(INCLUDE_SUPER ID args?)
| ID (' args ') -> ^(INCLUDE ID args?)
| '@' 'super' ! ID (' rp=') -> ^(INCLUDE_SUPER_REGION ID)
| '@' ID (' rp=') -> ^(INCLUDE_REGION ID)
| primary
;

```

```

primary
: ID
| STRING
| TRUE
| FALSE
| subtemplate
| list
| {$conditional.size()>0}?=> '(! conditional)!'
| {$conditional.size()==0}?=> lp=(' expr ')
(' argExprList? ') -> ^(INCLUDE_IND[$lp] expr argExprList?)
| -> ^(TO_STR[$lp] expr)
)
;

```

```

args: argExprList
| namedArg (' namedArg)* ('...')? -> namedArg + '...' ?
| '...'
|
;

```

```

argExprList : arg (' arg)* -> arg + ;

```

```

arg : exprNoComma ;

```

```

namedArg : ID '=' arg -> ^('=' ID arg) ;

```

```

list: {input.LA(2)==RBRACK}? // hush warning; [] special case
 lb='[' -> LIST[$lb]
| lb='[' listElement (' listElement)* ']' -> ^(LIST[$lb] listElement*)
;

```

```

listElement : exprNoComma | -> NULL ;

```

Found in path(s):

```
* /opt/cola/permits/1110745825_1606848362.54/0/st4-4-0-8-sources-1-
```

jar/org/stringtemplate/v4/compiler/STParser.g

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 */
```

```
tree grammar CodeGenerator;
```

```
options {
 language=Java;
 tokenVocab=STParser;
 ASTLabelType=CommonTree;
}
```

```
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- \*/

```
package org.stringtemplate.v4.compiler;
import org.stringtemplate.v4.misc.*;
import org.stringtemplate.v4.*;
}
```

```
@members {
String outermostTemplateName; // name of overall template
CompiledST outermostImpl;
Token templateToken; // overall template token
String template; // overall template text
ErrorManager errMgr;
public CodeGenerator(TreeNodeStream input, ErrorManager errMgr, String name, String template, Token
templateToken) {
this(input, new RecognizerSharedState());
this.errMgr = errMgr;
this.outermostTemplateName = name;
this.template = template;
this.templateToken = templateToken;
}
```

```
// convience funcs to hide offensive sending of emit messages to
// CompilationState temp data object.
```

```
public void emit1(CommonTree opAST, short opcode, int arg) {
$template::state.emit1(opAST, opcode, arg);
}
public void emit1(CommonTree opAST, short opcode, String arg) {
$template::state.emit1(opAST, opcode, arg);
}
```

```

public void emit2(CommonTree opAST, short opcode, int arg, int arg2) {
 $template::state.emit2(opAST, opcode, arg, arg2);
}
public void emit2(CommonTree opAST, short opcode, String s, int arg2) {
 $template::state.emit2(opAST, opcode, s, arg2);
}
public void emit(CommonTree opAST, short opcode) {
 $template::state.emit(opAST, opcode);
}
public void insert(int addr, short opcode, String s) {
 $template::state.insert(addr, opcode, s);
}
public void setOption(CommonTree id) {
 $template::state.setOption(id);
}
public void write(int addr, short value) {
 $template::state.write(addr,value);
}
public int address() { return $template::state.ip; }
public void func(CommonTree id) { $template::state.func(templateToken, id); }
public void refAttr(CommonTree id) { $template::state.refAttr(templateToken, id); }
public int defineString(String s) { return $template::state.defineString(s); }
}

```

templateAndEOF : template[null,null] EOF; // hush warning; ignore

```

template[String name, List<FormalArgument> args] returns [CompiledST impl]
scope {
 CompilationState state; // automatically get a new state pointer per invocation
}
@init {
 $template::state = new CompilationState(errMgr, name, input.getTokenStream());
 $impl = $template::state.impl;
 if ($template.size() == 1) outermostImpl = $impl;
 $impl.defineFormalArgs($args); // make sure args are defined prior to compilation
 if (name!=null && name.startsWith(Compiler.SUBTEMPLATE_PREFIX)) {
 $impl.addArg(new FormalArgument("i"));
 $impl.addArg(new FormalArgument("i0"));
 }
 $impl.template = template; // always forget the entire template; char indexes are relative to it
}
: chunk
{ // finish off the CompiledST result
 if ($template::state.stringtable!=null) $impl.strings = $template::state.stringtable.toArray();
 $impl.codeSize = $template::state.ip;
}
;

```

```

chunk
: element*
;

element
: ^(INDENTED_EXPR INDENT compoundElement[$INDENT]) // ignore indent in front of IF and region blocks
| compoundElement[null]
| ^(INDENTED_EXPR INDENT { $template::state.indent($INDENT); } singleElement
{ $template::state.emit(Bytecode.INSTR_DEDENT); })
| singleElement
;

singleElement
: exprElement
| TEXT
{
if ($TEXT.text.length()>0) {
emit1($TEXT,Bytecode.INSTR_WRITE_STR, $TEXT.text);
}
}

| NEWLINE { emit($NEWLINE, Bytecode.INSTR_NEWLINE); }
;

compoundElement[CommonTree indent]
: ifstat[indent]
| region[indent]
;

exprElement
@init { short op = Bytecode.INSTR_WRITE; }
: ^(EXPR expr (exprOptions { op=Bytecode.INSTR_WRITE_OPT; })?)
{
/*
CompilationState state = $template::state;
CompiledST impl = state.impl;
if (impl.instrs[state.ip-1] == Bytecode.INSTR_LOAD_LOCAL) {
impl.instrs[state.ip-1] = Bytecode.INSTR_WRITE_LOCAL;
}
else {
emit($EXPR, op);
}
*/
emit($EXPR, op);
}
;

region[CommonTree indent] returns [String name]

```

```

@init {
if (indent!=null) $template::state.indent(indent);
}
@after {
if (indent!=null) $template::state.emit(Bytecode.INSTR_DEDENT);
}
: ^(REGION ID
{ $name = STGroup.getMangledRegionName(outermostTemplateName, $ID.text);}
template[$name,null]
{
CompiledST sub = $template.impl;
sub.isRegion = true;
sub.regionDefType = ST.RegionType.EMBEDDED;
sub.templateDefStartToken = $ID.token;
//sub.dump();
outermostImpl.addImplicitlyDefinedTemplate(sub);
emit2($start, Bytecode.INSTR_NEW, $region.name, 0);
emit($start, Bytecode.INSTR_WRITE);
}
)
;

```

subtemplate returns [String name, int nargs]

```

@init {
$name = Compiler.getNewSubtemplateName();
List<FormalArgument> args = new ArrayList<FormalArgument>();
}
: ^(SUBTEMPLATE
(^ (ARGS (ID {args.add(new FormalArgument($ID.text));})+))*
{ $nargs = args.size();}
template[$name,args]
{
CompiledST sub = $template.impl;
sub.isAnonSubtemplate = true;
sub.templateDefStartToken = $SUBTEMPLATE.token;
sub.ast = $SUBTEMPLATE;
sub.ast.setUnknownTokenBoundaries();
sub.tokens = input.getTokenStream();
//sub.dump();
outermostImpl.addImplicitlyDefinedTemplate(sub);
}
)
| SUBTEMPLATE // {}
{
CompiledST sub = new CompiledST();
sub.name = $name;
sub.template = "";
sub.addArg(new FormalArgument("i"));

```

```

sub.addArg(new FormalArgument("i0"));
sub.isAnonSubtemplate = true;
 sub.templateDefStartToken = $SUBTEMPLATE.token;
 sub.ast = $SUBTEMPLATE;
 sub.ast.setUnknownTokenBoundaries();
 sub.tokens = input.getTokenStream();
//sub.dump();
outermostImpl.addImplicitlyDefinedTemplate(sub);
}
;

ifstat[CommonTree indent]
@init {
 /** Tracks address of branch operand (in code block). It's how
 * we backpatch forward references when generating code for IFs.
 */
 int prevBranchOperand = -1;
 /** Branch instruction operands that are forward refs to end of IF.
 * We need to update them once we see the endif.
 */
 List<Integer> endRefs = new ArrayList<Integer>();
 if (indent!=null) $template::state.indent(indent);
}
@after {
 if (indent!=null) $template::state.emit(Bytecode.INSTR_DEDENT);
}
: ^(i='if' conditional
{
 prevBranchOperand = address()+1;
 emit1($i,Bytecode.INSTR_BRF, -1); // write placeholder as branch target
}
chunk
(^(eif='elseif'
{
 endRefs.add(address()+1);
 emit1($eif,Bytecode.INSTR_BR, -1); // br end
 // update previous branch instruction
 write(prevBranchOperand, (short)address());
 prevBranchOperand = -1;
}
ec=conditional
{
 prevBranchOperand = address()+1;
 // write placeholder as branch target
 emit1($ec.start, Bytecode.INSTR_BRF, -1);
}
chunk
)

```

```

)*
(^(el='else'
{
endRefs.add(address()+1);
emit1($el, Bytecode.INSTR_BR, -1); // br end
// update previous branch instruction
write(prevBranchOperand, (short)address());
prevBranchOperand = -1;
}
chunk
)
)?
)
{
if (prevBranchOperand >= 0) {
write(prevBranchOperand, (short)address());
}
for (int opnd : endRefs) write(opnd, (short)address());
}
;

conditional
: ^(OR conditional conditional) {emit($OR, Bytecode.INSTR_OR);}
| ^(AND conditional conditional) {emit($AND, Bytecode.INSTR_AND);}
| ^(BANG conditional) {emit($BANG, Bytecode.INSTR_NOT);}
| expr // not all expr are valid, but reuse code gen (parser restricts syntax)
;

exprOptions : {emit($start, Bytecode.INSTR_OPTIONS);} ^(OPTIONS option*);

option : ^('=' ID expr) {setOption($ID);} ;

expr
@init {int nt = 0, ne = 0;}
: ^(ZIP ^(ELEMENTS (expr {ne++;})+) mapTemplateRef[ne])
{emit1($ZIP, Bytecode.INSTR_ZIP_MAP, ne);}
| ^(MAP expr (mapTemplateRef[1] {nt++;})+)
{
if (nt > 1) emit1($MAP, nt > 1 ? Bytecode.INSTR_ROT_MAP : Bytecode.INSTR_MAP, nt);
else emit1($MAP, Bytecode.INSTR_MAP);
}
| prop
| includeExpr
;

prop: ^(PROP expr ID) {emit1($PROP, Bytecode.INSTR_LOAD_PROP, $ID.text);}
| ^(PROP_IND expr expr) {emit1($PROP_IND, Bytecode.INSTR_LOAD_PROP_IND);}
;

```



```

mapTemplateRef[int num_exprs]
: ^(INCLUDE ID
 {for (int i=1; i<=$num_exprs; i++) emit($INCLUDE,Bytecode.INSTR_NULL);}
 args
)
 {
 if ($args.passThru) emit1($start, Bytecode.INSTR_PASSTHRU, $ID.text);
 if ($args.namedArgs) emit1($INCLUDE, Bytecode.INSTR_NEW_BOX_ARGS, $ID.text);
 else emit2($INCLUDE, Bytecode.INSTR_NEW, $ID.text, $args.n+$num_exprs);
 }
| subtemplate
 {
 if ($subtemplate.nargs != $num_exprs) {
 errMgr.compileTimeError(ErrorType.ANON_ARGUMENT_MISMATCH,
 templateToken, $subtemplate.start.token, $subtemplate.nargs, $num_exprs);
 }
 for (int i=1; i<=$num_exprs; i++) emit($subtemplate.start,Bytecode.INSTR_NULL);
 emit2($subtemplate.start, Bytecode.INSTR_NEW,
 $subtemplate.name,
 $num_exprs);
 }

| ^(INCLUDE_IND expr
 {
 emit($INCLUDE_IND,Bytecode.INSTR_TOSTR);
 for (int i=1; i<=$num_exprs; i++) emit($INCLUDE_IND,Bytecode.INSTR_NULL);
 }
 args
 {
 emit1($INCLUDE_IND, Bytecode.INSTR_NEW_IND, $args.n+$num_exprs);
 }
)
;

includeExpr
: ^(EXEC_FUNC ID expr?) {func($ID);}
| ^(INCLUDE ID args)
 {
 if ($args.passThru) emit1($start, Bytecode.INSTR_PASSTHRU, $ID.text);
 if ($args.namedArgs) emit1($INCLUDE, Bytecode.INSTR_NEW_BOX_ARGS, $ID.text);
 else emit2($INCLUDE, Bytecode.INSTR_NEW, $ID.text, $args.n);
 }
| ^(INCLUDE_SUPER ID args)
 {
 if ($args.passThru) emit1($start, Bytecode.INSTR_PASSTHRU, $ID.text);
 if ($args.namedArgs) emit1($INCLUDE_SUPER, Bytecode.INSTR_SUPER_NEW_BOX_ARGS, $ID.text);
 else emit2($INCLUDE_SUPER, Bytecode.INSTR_SUPER_NEW, $ID.text, $args.n);
 }

```

```

}
|^(INCLUDE_REGION ID) {
 CompiledST impl =
 Compiler.defineBlankRegion(outermostImpl, $ID.token);
 //impl.dump();
 emit2($INCLUDE_REGION,Bytecode.INSTR_NEW,impl.name,0);
}
|^(INCLUDE_SUPER_REGION ID) {
 String mangled =
 STGroup.getMangledRegionName(outermostImpl.name, $ID.text);
 emit2($INCLUDE_SUPER_REGION,Bytecode.INSTR_SUPER_NEW,mangled,0);
}
| primary
;

primary
: ID {refAttr($ID);}
| STRING {emit1($STRING,Bytecode.INSTR_LOAD_STR, Misc.strip($STRING.text,1));}
| TRUE {emit($TRUE, Bytecode.INSTR_TRUE);}
| FALSE {emit($FALSE, Bytecode.INSTR_FALSE);}
| subtemplate // push a subtemplate but ignore args since we can't pass any to it here
 {emit2($start,Bytecode.INSTR_NEW, $subtemplate.name, 0);}
| list
|^(INCLUDE_IND
 expr {emit($INCLUDE_IND, Bytecode.INSTR_TOSTR);}
 args {emit1($INCLUDE_IND, Bytecode.INSTR_NEW_IND, $args.n);}
)
|^(TO_STR expr) {emit($TO_STR, Bytecode.INSTR_TOSTR);}
;

arg : expr ;

args returns [int n=0, boolean namedArgs=false, boolean passThru]
: (arg {$n++;})+
| {emit($args.start, Bytecode.INSTR_ARGS); $namedArgs=true;}
(^(eq='=' ID expr)
 {$n++; emit1($eq, Bytecode.INSTR_STORE_ARG, defineString($ID.text));}
)+
('...' {$passThru=true;})?
| '...' {$passThru=true; emit($args.start, Bytecode.INSTR_ARGS); $namedArgs=true;}
|
;

list: {emit($start, Bytecode.INSTR_LIST);}
 ^(LIST (listElement {emit($listElement.start, Bytecode.INSTR_ADD);})*)
;

listElement : expr | NULL {emit($NULL,Bytecode.INSTR_NULL);} ;

```

Found in path(s):

\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/CodeGenerator.g

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\*/

grammar Group;

options {

language=Java;

}

tokens {

TRUE='true'; FALSE='false'; LBRACK='['; RBRACK=']';

}

@header {

/\*

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```

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*/

```

```
package org.stringtemplate.v4.compiler;
```

```

import java.util.Collections;
import java.util.Map;
import java.util.HashMap;
import java.util.List;
import java.util.ArrayList;
import org.stringtemplate.v4.misc.*;
import org.stringtemplate.v4.*;
import java.io.File;
}

```

```

@lexer::header {
/*
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- \*/

```
package org.stringtemplate.v4.compiler;
import org.stringtemplate.v4.*;
import org.stringtemplate.v4.misc.*;
import java.io.File;
}
```

```
@members {
public STGroup group;
```

```
@Override
public void displayRecognitionError(String[] tokenNames,
 RecognitionException e)
{
 String msg = getErrorMessage(e, tokenNames);
 group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
}
```

```
@Override
public String getSourceName() {
 String fullFileName = super.getSourceName();
 File f = new File(fullFileName); // strip to simple name
 return f.getName();
}

public void error(String msg) {
 NoViableAltException e = new NoViableAltException("", 0, 0, input);
 group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
 recover(input, null);
}
}
```

```
@lexer::members {
public STGroup group;
```

```
@Override
```

```

public void reportError(RecognitionException e) {
 String msg = null;
 if (e instanceof NoViableAltException) {
 msg = "invalid character '"+(char)input.LA(1)+"'";
 }
 else if (e instanceof MismatchedTokenException && ((MismatchedTokenException)e).expecting=="") {
 msg = "unterminated string";
 }
 else {
 msg = getErrorMessage(e, getTokenNames());
 }
 group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
}

@Override
public String getSourceName() {
 String fullFileName = super.getSourceName();
 File f = new File(fullFileName); // strip to simple name
 return f.getName();
}
}

group[STGroup group, String prefix]
@init {
GroupLexer lexer = (GroupLexer)input.getTokenSource();
this.group = lexer.group = $group;
}
: oldStyleHeader?
delimiters?
('import' STRING {group.importTemplates($STRING);}
| 'import' // common error: name not in string
{
MismatchedTokenException e = new MismatchedTokenException(STRING, input);
reportError(e);
}
ID (' ID)* // might be a.b.c.d
)*
def[prefix]*
EOF
;

oldStyleHeader // ignore but lets us use this parser in AW for both v3 and v4
: 'group' ID (':' ID)?
('implements' ID (',' ID)*)?
';
;

groupName returns [String name]
@init {StringBuilder buf = new StringBuilder();}

```

```

: a=ID {buf.append($a.text);} (' a=ID {buf.append($a.text);})*
;

```

delimiters

```

: 'delimiters' a=STRING ',' b=STRING
{
 group.delimiterStartChar=$a.getText().charAt(1);
 group.delimiterStopChar=$b.getText().charAt(1);
}
;

```

/\*\* Match template and dictionary defs outside of (...) loop in group.

\* The key is catching while still in the loop; must keep prediction of

\* elements separate from "stay in loop" prediction.

\*/

```

def[String prefix] : templateDef[prefix] | dictDef ;
catch[RecognitionException re] {
 // pretend we already saw an error here
 state.lastErrorIndex = input.index();
 error("garbled template definition starting at "+input.LT(1).getText()+"");
}

```

templateDef[String prefix]

@init {

String template=null;

int n=0; // num char to strip from left, right of template def

}

```

: ('@' enclosing=ID '.' name=ID '(' ')

```

```

| name=ID '(' formalArgs ')'

```

```

)

```

```

'::='

```

```

{Token templateToken = input.LT(1);}

```

```

(STRING {template=$STRING.text; n=1;}

```

```

| BIGSTRING {template=$BIGSTRING.text; n=2;}

```

```

| BIGSTRING_NO_NL {template=$BIGSTRING_NO_NL.text; n=2;}

```

```

| {

```

```

 template = "";

```

```

 String msg = "missing template at "+input.LT(1).getText()+"";

```

```

 NoViableAltException e = new NoViableAltException("", 0, 0, input);

```

```

 group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);

```

```

 }

```

```

)

```

```

{

```

```

 if ($name.index >= 0) { // if ID missing

```

```

 template = Misc.strip(template, n);

```

```

 String templateName = $name.text;

```

```

 if (prefix.length()>0) templateName = prefix+$name.text;

```

```

 String enclosingTemplateName = $enclosing.text;

```

```

if (enclosingTemplateName != null && enclosingTemplateName.length()>0 && prefix.length()>0) {
 enclosingTemplateName = prefix + enclosingTemplateName;
}
group.defineTemplateOrRegion(templateName, enclosingTemplateName, templateToken,
 template, $name, $formalArgs.args);
}
}
| alias=ID '::~' target=ID {group.defineTemplateAlias($alias, $target);}
;

formalArgs returns[List<FormalArgument> args = new ArrayList<FormalArgument>()]
scope {
 boolean hasOptionalParameter;
}
@init { $formalArgs::hasOptionalParameter = false; }
: formalArg[$sargs] (' formalArg[$sargs])*
|
;

formalArg[List<FormalArgument> args]
: ID
('=' a=(STRING|ANONYMOUS_TEMPLATE|'true'|'false') {$formalArgs::hasOptionalParameter = true;}
| '=' a=[' ']' {$formalArgs::hasOptionalParameter = true;}
| {
 if ($formalArgs::hasOptionalParameter) {
 group.errMgr.compileTimeError(ErrorType.REQUIRED_PARAMETER_AFTER_OPTIONAL,
 null, $ID);
 }
}
)
{$sargs.add(new FormalArgument($ID.text, $a));}
;

/*
suffix returns [int cardinality=FormalArgument.REQUIRED]
: OPTIONAL
| STAR
| PLUS
|
;
*/

dictDef
: ID '::~' dict
{
 if (group.rawGetDictionary($ID.text)!=null) {
 group.errMgr.compileTimeError(ErrorType.MAP_REDEFINITION, null, $ID);
 }
}

```



```

 else if (group.rawGetTemplate($ID.text)!=null) {
group.errMgr.compileTimeError(ErrorType.TEMPLATE_REDEFINITION_AS_MAP, null, $ID);
 }
 else {
 group.defineDictionary($ID.text, $dict.mapping);
 }
}
;

dict returns [Map<String,Object> mapping]
@init { mapping=new HashMap<String,Object>();}
: '[' dictPairs[mapping] ']'
;

dictPairs[Map<String,Object> mapping]
: keyValuePair[mapping]
 (' keyValuePair[mapping])* (' defaultValuePair[mapping])?
 | defaultValuePair[mapping]
;
catch[RecognitionException re] {
 error("missing dictionary entry at '"+input.LT(1).getText()+"");
}

defaultValuePair[Map<String,Object> mapping]
: 'default' ':' keyValue { mapping.put(STGroup.DEFAULT_KEY, $keyValue.value);}
;

keyValuePair[Map<String,Object> mapping]
: STRING ':' keyValue { mapping.put(Misc.replaceEscapes(Misc.strip($STRING.text, 1)), $keyValue.value);}
;

keyValue returns [Object value]
: BIGSTRING { $value = group.createSingleton($BIGSTRING);}
| BIGSTRING_NO_NL { $value = group.createSingleton($BIGSTRING_NO_NL);}
| ANONYMOUS_TEMPLATE { $value = group.createSingleton($ANONYMOUS_TEMPLATE);}
| STRING { $value = Misc.replaceEscapes(Misc.strip($STRING.text, 1));}
| TRUE { $value = true;}
| FALSE { $value = false;}
| '[' ']' { $value = Collections.emptyList();}
| {input.LT(1).getText().equals("key")}?=> ID
 { $value = STGroup.DICT_KEY;}
;
catch[RecognitionException re] {
 error("missing value for key at '"+input.LT(1).getText()+"");
}

ID : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'-'|'_')*
;

```

## STRING

```
: ""
('\\ ' ""
| '\\ ~ ' ""
| {
String msg = "\\n in string";
NoViableAltException e = new NoViableAltException("", 0, 0, input);
group.errMgr.groupLexerError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
}
'n'
| ~(\\'|"'|\n')
)*
""
{
String txt = getText().replaceAll("\\\\\\\\", "\\");
setText(txt);
}
;
```

BIGSTRING\_NO\_NL // same as BIGSTRING but means ignore newlines later

```
: '<% (.) * %>'
// %\> is the escape to avoid end of string
{
String txt = getText().replaceAll("%\\\\\>", "%>");
setText(txt);
}
;
```

/\*\* Match <<...>> but also allow <<..<x>>> so we can have tag on end.

Escapes: >\> means >> inside of <<...>>.

Escapes: \>> means >> inside of <<...>> unless at end like <<... \>>>>.

In that case, use <%...>>%> instead.

\*/

## BIGSTRING

```
: '<<'
(options {greedy=false;}
: '\\ '>' // \> escape
| '\\ ~ '>' // allow this but don't collapse in action
| ~ '\\ '
)*
'>>'
{
String txt = getText();
txt = Misc.replaceEscapedRightAngle(txt); // replace \> with > unless <\>
setText(txt);
}
;
```

## ANONYMOUS\_TEMPLATE

```
: '{'
{
 Token templateToken = new CommonToken(input, ANONYMOUS_TEMPLATE, 0, getCharIndex(),
getCharIndex());
 STLexer lexer =
 new STLexer(group.errMgr, input, templateToken, group.delimiterStartChar, group.delimiterStopChar);
 lexer.subtemplateDepth = 1;
 Token t = lexer.nextToken();
 while (lexer.subtemplateDepth>=1 || t.getType()!=STLexer.RCURLY) {
 if (t.getType()==STLexer.EOF_TYPE) {
 MismatchedTokenException e = new MismatchedTokenException('}', input);
 String msg = "missing final '}' in {...} anonymous template";
 group.errMgr.groupLexerError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
 break;
 }
 t = lexer.nextToken();
 }
 }
 // don't match '}' here; our little {...} scanner loop matches it
 // to terminate.
 ;
```

## COMMENT

```
: '/' (options {greedy=false;} : .)* '*' {skip();}
;
```

## LINE\_COMMENT

```
: '/' ~('\n'|'\r')* '\r'? '\n' {skip();}
;
```

```
WS : (' '\r'\t'\n') {skip();} ;
```

Found in path(s):

\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/Group.g

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

/\*

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- \*/

Found in path(s):

- \* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/gui/JTreeASTModel.java
- \* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/gui/JTreeSTModel.java
- \* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/debug/InterpEvent.java
- \* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/STGroupCompiletimeMessage.java
- \* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/BytecodeDisassembler.java
- \* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/CompilationState.java
- \* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/ModelAdaptor.java
- \* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/Misc.java
- \* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/STLexerMessage.java
- \* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/STGroup.java
- \* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/Coordinate.java
- \* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/ErrorType.java
- \* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/debug/IndentEvent.java
- \* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/STCompiletimeMessage.java
- \* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/compiler/FormalArgument.java
- \* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-

jar/org/stringtemplate/v4/misc/ErrorBuffer.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/ST.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/AutoIndentWriter.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/DateRenderer.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/debug/ConstructionEvent.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/NumberRenderer.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/misc/Interval.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/misc/ObjectModelAdaptor.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/STGroupFile.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/compiler/CodeGenerator.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/compiler/STException.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/misc/STNoSuchAttributeException.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/gui/STViz.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/STGroupDir.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/compiler/CompiledST.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/misc/MapModelAdaptor.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/AttributeRenderer.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/debug/EvalTemplateEvent.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/compiler/STLexer.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/STGroupString.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/misc/STNoSuchPropertyException.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/misc/Aggregate.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/misc/STRuntimeMessage.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/debug/AddAttributeEvent.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/compiler/Bytecode.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/misc/AggregateModelAdaptor.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/Interpreter.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/STWriter.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-

jar/org/stringtemplate/v4/misc/MultiMap.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/misc/ArrayIterator.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/compiler/GroupParser.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/misc/ErrorMessage.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/misc/STModelAdaptor.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/debug/EvalExprEvent.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/gui/STViewFrame.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/compiler/GroupLexer.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/misc/STMessage.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/compiler/StringTable.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/NoIndentWriter.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/STErrorListener.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/compiler/Compiler.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/StringRenderer.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-jar/org/stringtemplate/v4/InstanceScope.java  
\* /opt/cola/permits/1110745825\_1606848362.54/0/st4-4-0-8-sources-1-  
jar/org/stringtemplate/v4/gui/JTreeScopeStackModel.java

## 1.459 cookie-signature 1.0.6 1.0.6

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## 1.460 resolve-from 2.0.0 2.0.0

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## 1.461 qs 6.2.0 6.2.0

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\* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/AbbreviationMap.java

- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/MultipleArgumentsForOptionException.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/ValueConverter.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/ValueConversionException.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/MethodInvokingValueConverter.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/IllegalOptionSpecificationException.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/UnconfiguredOptionException.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionException.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/AbstractOptionSpec.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionSpecBuilder.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionParserState.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/OptionNameMap.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/HelpFormatter.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionalArgumentOptionSpec.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionSpec.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/ReflectionException.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionParser.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/Strings.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/ArgumentAcceptingOptionSpec.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/MissingRequiredOptionsException.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/SimpleOptionNameMap.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/util/DateConverter.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/BuiltinHelpFormatter.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/ConstructorInvokingValueConverter.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/Row.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionMissingRequiredArgumentException.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/Rows.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/Columns.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/util/InetAddressConverter.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionSpecTokenizer.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-

jar/joptsimple/NoArgumentOptionSpec.java  
\* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-  
jar/joptsimple/NonOptionArgumentSpec.java  
\* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/ArgumentList.java  
\* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-  
jar/joptsimple/OptionArgumentConversionException.java  
\* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/util/KeyValuePair.java  
\* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/util/RegexMatcher.java  
\* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/Classes.java  
\* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/Reflection.java  
\* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionDescriptor.java  
\* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-  
jar/joptsimple/UnrecognizedOptionException.java  
\* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-  
jar/joptsimple/AlternativeLongOptionSpec.java  
\* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-  
jar/joptsimple/UnavailableOptionException.java  
\* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/Messages.java  
\* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-  
jar/joptsimple/RequiredArgumentOptionSpec.java  
\* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/ParserRules.java  
\* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionSet.java  
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\*/

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\* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/util/EnumConverter.java

## 1.472 is-buffer 1.1.6 1.1.6

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## 1.473 safe-json-stringify 1.0.4 1.0.4

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# 1.474 curator-client 2.12.0

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## 1.475 websocket-client 9.3.27.v20190418

## 1.476 jackson-dataformat-xml 2.9.10

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## 1.479 js-cookie 2.1.1 2.1.1

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# 1.482 Lucene 8.0.0

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[1] <https://github.com/hunterhacker/jdom/blob/master/LICENSE.txt>

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```

```
<html><head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
```

```
<title>Eclipse.org Software User Agreement</title>
```

```
</head><body lang="EN-US" link="blue" vlink="purple">
```

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<h2>Eclipse Foundation Software User Agreement</h2>
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VERSION: 2.1 PoliMorf  
BUILD: 2016-02-13 19:37:50+01:00  
GIT: 6e63b53

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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CyberNeko HTML Parser

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NekoHTML is a simple HTML scanner and tag balancer that enables application programmers to parse HTML documents and access the information using standard XML interfaces. The parser can scan HTML files and "fix up" many common mistakes that human (and computer) authors make in writing HTML documents. NekoHTML adds missing parent elements; automatically closes elements with optional end tags; and can handle mismatched inline element tags.

NekoHTML is written using the Xerces Native Interface (XNI) that is the foundation of the Xerces2 implementation. This enables you to use the NekoHTML parser with existing XNI tools without modification or rewriting code.

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analysis/common/src/java/net/sf/snowball  
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<http://snowball.tartarus.org/>

The KStem stemmer in  
analysis/common/src/org/apache/lucene/analysis/en  
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)  
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The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default  
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:

analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers  
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and  
Ljiljana Dolamic. These files reside in:

analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed  
by the Egothor project <http://egothor.sf.net/>, created by Leo Galambos, Martin Kvapil,  
and Edmond Nolan.

The Polish analyzer (stempel) comes with a default  
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in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.  
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=====  
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## 1.486 minlog 1.3.0

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## 1.488 httpclient 4.5.7

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## 1.490 graceful-fs 4.1.11 4.1.11

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## 1.493 safe-buffer 5.1.1 5.1.1

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\* /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

# 1.495 joda-time 2.7

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### 1.0.0

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# 1.505 babel-plugin-syntax-async-functions

## 6.13.0 6.13.0

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## 1.507 nocache 1.0.1 1.0.1

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## 1.508 hdrhistogram 2.1.9

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 */
```

```
package org.HdrHistogram;
```

```
final class Version {
 public static final String version="$VERSION$";
 public static final String build_time="$BUILD_TIME$";
}
```

Found in path(s):

```
* /opt/cola/permits/1000000798_1646171445.44/0/hdrhistogram-2-1-9-sources-
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# 1.509 debug 2.6.9 2.6.9

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## 1.512 babel-types 6.26.0 6.26.0

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# 1.513 jws 3.1.4 3.1.4

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# 1.514 isarray 0.0.1 0.0.1

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## 1.516 content-type 1.0.4 1.0.4

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## 1.517 okhttp 2.5.0



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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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 \*/

```
tree grammar BlockSetTransformer;
```

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

```
@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import java.util.HashSet;
import java.util.ArrayList;
```

```

import org.antlr.v4.runtime.misc.IntervalSet;
}

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

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

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

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

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

blockSet
@init {
 boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: {inContext("RULE")}? // top-level: rule block and > 1 alt

```

```

 ^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) (^(ALT
elementOptions? setElement[inLexer]))+
-> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
| {!inContext("RULE")}? // if not rule block and > 1 alt
^(BLOCK ^(ALT elementOptions? setElement[inLexer]) (^(ALT elementOptions? setElement[inLexer]))+
-> ^(SET[$BLOCK.token, "SET"] setElement+))
;

```

```

setElement[boolean inLexer]

```

```

@after {

```

```

 GrammarTransformPipeline.setGrammarPtr(g, $tree);

```

```

}

```

```

: (^(a=STRING_LITERAL elementOptions) {!inLexer ||

```

```

CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 }?

```

```

| a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 }?

```

```

| {!inLexer}?=> ^(TOKEN_REF elementOptions)

```

```

| {!inLexer}?=> TOKEN_REF

```

```

| {!inLexer}?=> ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)

```

```

{CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 &&

```

```

CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1 }?

```

```

)

```

```

;

```

```

elementOptions

```

```

: ^(ELEMENT_OPTIONS elementOption*)

```

```

;

```

```

elementOption

```

```

: ID

```

```

| ^(ASSIGN id=ID v=ID)

```

```

| ^(ASSIGN ID v=STRING_LITERAL)

```

```

| ^(ASSIGN ID v=ACTION)

```

```

| ^(ASSIGN ID v=INT)

```

```

;

```

```

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```

```

* /opt/ws_local/PERMITS_SQL/1015863373_1591325492.5/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/parse/BlockSetTransformer.g

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*/

```

```

/** Find left-recursive rules */

```

```

tree grammar LeftRecursiveRuleWalker;

```

```

options {

```

```

 tokenVocab=ANTLRParser;
 ASTLabelType=GrammarAST;
}

```

```

@header {

```

```

package org.antlr.v4.parse;

```

```

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

```

```

@members {

```

```

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

```

```

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}

```

```

public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

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

exceptionGroup
: exceptionHandler* finallyClause?
;

exceptionHandler
: ^(CATCH ARG_ACTION ACTION)
;

finallyClause
: ^(FINALLY ACTION)
;

ruleModifier
: PUBLIC
| PRIVATE
| PROTECTED
;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
: ^(BLOCK

```

```

(
 o=outerAlternative
 {if ($o.isLeftRec) $isLeftRec = true;}
 {currentOuterAltNumber++;}
)+
)
;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
: (binary)=> binary
 {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| (prefix)=> prefix
 {prefixAlt((AltAST)$start, currentOuterAltNumber);}
| (suffix)=> suffix
 {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| nonLeftRecur {otherAlt((AltAST)$start, currentOuterAltNumber);}
;

binary
: ^(ALT elementOptions? recurse element* recurse epsilonElement*)
 {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

prefix
: ^(ALT elementOptions?
 element+
 recurse epsilonElement*
)
 {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

suffix
: ^(ALT elementOptions? recurse element+)
 {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

nonLeftRecur
: ^(ALT elementOptions? element+)
;

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

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

```



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

```
elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;
```

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

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

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

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

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

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

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

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

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\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-

jar/org/antlr/v4/parse/ANTLRLexer.java

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

```
/*
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 */

// File : A3Lexer.g
// Author : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version : First implemented as part of ANTLR 3.2 this is the self
// hosting ANTLR 3 Lexer.
//
// Description
// -----
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grmmars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
```

```
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
// for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
// that the lexer tries to defer error reporting to the parser, and the parser
// tries to defer error reporting to a semantic phase consisting of a single
// walk of the AST. The reason for this is that the error messages produced
// from later phases of the parse will generally have better context and so
// be more useful to the end user. Consider the message: "Syntax error at 'options'"
// vs: "You cannot specify two options{ } sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
// and report them specifically and not just issue confusing lexer mismatch errors.
//
```

```
/** Read in an ANTLR grammar and build an AST. Try not to do
```

```
* any actions, just build the tree.
```

```
*
```

```
* The phases are:
```

```
*
```

```
* A3Lexer.g (this file)
```

```
* A3Parser.g
```

```
* A3Verify.g (derived from A3Walker.g)
```

```
* assign.types.g
```

```
* define.g
```

```
* buildnfa.g
```

```
* antlr.print.g (optional)
```

```
* codegen.g
```

```
*
```

```
* Terence Parr
```

```
* University of San Francisco
```

```
* 2005
```

```
* Jim Idle (this v3 grammar)
```

```
* Temporal Wave LLC
```

```
* 2009
```

```
*/
```

```
lexer grammar ANTLRLexer;
```

```
// =====
```

```
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
```

```
// =====
```

```
// -----
```

```
// Options
```

```

//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {

// Target language is Java, which is the default but being specific
// here as this grammar is also meant as a good example grammar for
// for users.
//
language = Java;

// The super class that this lexer should expect to inherit from, and
// which contains any and all support routines for the lexer. This is
// commented out in this baseline (definitive or normative grammar)
// - see the ANTLR tool implementation for hints on how to use the super
// class
//
//superclass = AbstractA3Lexer;
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

```

```
// Include the copyright in this source and also the generated source
```

```
//
```

```
@lexer::header {
```

```
/*
```

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

```
Copyright (c) 2005-2009 Terence Parr
```

```
All rights reserved.
```

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\*/

```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.runtime.misc.Interval;
}
```

```
@members {
```

```
public static final int COMMENTS_CHANNEL = 2;
```

```
public CommonTokenStream tokens; // track stream we push to; need for context info
```

```
public boolean isLexerRule = false;
```

```
public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }
```

```
/** scan backwards from current point in this.tokens list
```

```
 * looking for the start of the rule or subrule.
```

```
 * Return token or null if for some reason we can't find the start.
```

```
*/
```

```
public Token getRuleOrSubruleStartToken() {
```

```
 if (tokens==null) return null;
```

```
 int i = tokens.index();
```

```
 int n = tokens.size();
```

```
 if (i>=n) i = n-1; // seems index == n as we lex
```

```
 while (i>=0 && i<n) {
```

```
 int ttype = tokens.get(i).getType();
```

```
 if (ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF) {
```

```
 return tokens.get(i);
```

```
 }
```

```
 i--;
```

```
 }
```

```
 return null;
```

```
}
```

```
}
```

```
// -----
```

```
// Comments
```

```
//
```

```
// ANTLR comments can be multi or single line and we don't care
```

```
// which particularly. However we also accept Javadoc style comments
```

```
// of the form: /** ... */ and we do take care to distinguish those
```

```
// from ordinary multi-line comments
```

```
// Note how we guide the lexical PATH because we want to issue a decriptive
```

```
// error message in case of a standalone '/' character, which makes no
```

```

// sense in ANTLR source code. We also trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

// Record the start line and offsets as if we need to report an
// unterminated comment, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = $line;
int offset = getCharPositionInLine();
}

: // Eat the first character only, then see if we have a comment
 // or something silly.
 //
 '/' // Comment introducer

(
 // Single line comment, possibly with embedded src/line directives
 // in a similar style to the C pre-processor, allowing generated
 // code to refer the programmer back to the original source code
 // in case of error.
 //
 '/'
 (
 (' $ANTLR')=> ' $ANTLR' SRC
 | ~(NLCHARS)*
)

| // Multi-line comment, which may be a documentation comment
 // if it starts /** (note that we protect against accidentally
 // recognizing a comment /**/ as a documentation comment
 //
 /** (
 { input.LA(2) != '/' }?=> '*' { $type = DOC_COMMENT; }
 | { true }?=> // Required to cover all alts with predicates
)

 // Should we support embedded multiline comments here?
 //
 (
 // Pick out end of multiline comment and exit the loop
 // if we find it.
 //
 { !(input.LA(1) == '*' && input.LA(2) == '/') }?

```



```

 // Anything else other than the non-greedy match of
 // the comment close sequence
 //
 .
)*
(
 // Look for the comment terminator, but if it is accidentally
 // unterminated, then we will hit EOF, which will trigger the
 // epsilon alt and hence we can issue an error message relative
 // to the start of the unterminated multi-line comment
 //
 /*'

|// Unterminated comment!
//
{
 // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
}
)

|// There was nothing that made sense following the opening '/' and so
// we issue an error regarding the malformed comment
//
{
 // TODO: Insert error message relative to comment start
 //
}
)
{
 // We do not wish to pass the comments in to the parser. If you are
 // writing a formatter then you will want to preserve the comments off
 // channel, but could just skip and save token space if not.
 //
 $channel=COMMENTS_CHANNEL;
}
;

```

ARG\_OR\_CHARSET

options {k=1;}

: {isLexerRule}?=> LEXER\_CHAR\_SET {\$type=LEXER\_CHAR\_SET;}

| {!isLexerRule}?=> ARG\_ACTION

{

\$type=ARG\_ACTION;

// Set the token text to our gathered string minus outer [ ]

String t = \$text;

t = t.substring(1,t.length()-1);

setText(t);

```

 }
;

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

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

 | ("")=>ACTION_STRING_LITERAL

 | ("\")=>ACTION_CHAR_LITERAL

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

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

```

: NESTED_ACTION
('?' { $type = SEMPRED; }
((WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
{
Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharPositionInLine(state.tokenStartCharPositionInLine);
grammarError(ErrorType.V3_GATED_SEMPRED, t);
}
)?
)?
;

// -----
// Action structure
//
// Many language targets use { } as block delimiters and so we
// must recursively match { } delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited by ' or " and so consume these
// in their own alts so as not to inadvertently match { }.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
@init {

// Record the start line and offsets as if we need to report an
// unterminated block, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = getLine();
int offset = getCharPositionInLine();
}

: // Action and other blocks start with opening {
//
'{'
(
// And now we can match one of a number of embedded
// elements within the action until we find a
// } that balances the opening {. If we do not find
// the balanced } then we will hit EOF and can issue
// an error message about the brace that we believe to
// be mismatched. This won't be foolproof but we will

```

```

// be able to at least report an error against the
// opening brace that we feel is in error and this will
// guide the user to the correction as best we can.
//

 // An embedded {} block
 //
 NESTED_ACTION

|// What appears to be a literal
//
 ACTION_CHAR_LITERAL

|// We have assumed that the target language has C/Java
// type comments.
//
 COMMENT

|// What appears to be a literal
//
 ACTION_STRING_LITERAL

|// What appears to be an escape sequence
//
 ACTION_ESC

|// Some other single character that is not
// handled above
//
 ~("\\|'|\"|/|'{'|}')

)*

(
 // Correctly balanced closing brace
 //
 '}'

|// Looks like have an imbalanced {} block, report
// with respect to the opening brace.
//
 {
 // TODO: Report imbalanced {}
 System.out.println("Block starting at line " + startLine + " offset " + (offset+1) + " contains imbalanced {} or
is missing a }");
 }
)

```

```

;

// Keywords
// -----
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
// labels for rules or in any other context where they would be ambiguous
// with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.
//
OPTIONS : 'options' WSNLCHARS* '{' ;
TOKENS_SPEC : 'tokens' WSNLCHARS* '{' ;
CHANNELS : 'channels' WSNLCHARS* '{' ;

IMPORT : 'import' ;
FRAGMENT : 'fragment' ;
LEXER : 'lexer' ;
PARSER : 'parser' ;
GRAMMAR : 'grammar' ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED : 'protected' ;
PUBLIC : 'public' ;
PRIVATE : 'private' ;
RETURNS : 'returns' ;
LOCALS : 'locals' ;
THROWS : 'throws' ;
CATCH : 'catch' ;
FINALLY : 'finally' ;
MODE : 'mode' ;

// -----
// Punctuation
//
// Character sequences used as separators, delimiters, operators, etc
//
COLON : ':'
 {
 // scan backwards, looking for a RULE_REF or TOKEN_REF.
 // which would indicate the start of a rule definition.
 // If we see a LPAREN, then it's the start of the subrule.
 // this.tokens is the token string we are pushing into, so
 // just loop backwards looking for a rule definition. Then
 // we set isLexerRule.
 Token t = getRuleOrSubruleStartToken();
 if (t!=null) {
 if (t.getType()==RULE_REF) isLexerRule = false;

```

```

 else if (t.getType()==TOKEN_REF) isLexerRule = true;
 // else must be subrule; don't alter context
 }
}
;
COLONCOLON : '::' ;
COMMA : ',' ;
SEMI : ';' ;
LPAREN : '(' ;
RPAREN : ')' ;
RARROW : '->' ;
LT : '<' ;
GT : '>' ;
ASSIGN : '=' ;
QUESTION : '?' ;
SYNPRED : '=>' ;
{
 Token t = new CommonToken(input, state.type, state.channel,
 state.tokenStartCharIndex, getCharIndex()-1);
 t.setLine(state.tokenStartLine);
 t.setText(state.text);
 t.setCharacterPositionInLine(state.tokenStartCharPositionInLine);
 grammarError(ErrorType.V3_SYNPRED, t);
 $channel=HIDDEN;
}
;
STAR : '*' ;
PLUS : '+' ;
PLUS_ASSIGN : '+=' ;
OR : '|' ;
DOLLAR : '$' ;
DOT : '.' ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE : '..' ;
AT : '@' ;
POUND : '#' ;
NOT : '~' ;
RBRACE : '}' ;

/** Allow unicode rule/token names */
ID : a=NameStartChar NameChar*
{
 if (Grammar.isTokenName($a.text)) $type = TOKEN_REF;
 else $type = RULE_REF;
}
;

fragment
NameChar : NameStartChar

```

```

| '0'..'9'
| '_'
| '\u00B7'
| '\u0300'..\u036F'
| '\u203F'..\u2040'
;

```

fragment

NameStartChar

```

: 'A'..'Z' | 'a'..'z'
| '\u00C0'..\u00D6'
| '\u00D8'..\u00F6'
| '\u00F8'..\u02FF'
| '\u0370'..\u037D'
| '\u037F'..\u1FFF'
| '\u200C'..\u200D'
| '\u2070'..\u218F'
| '\u2C00'..\u2FEF'
| '\u3001'..\uD7FF'
| '\uF900'..\uFDCF'
| '\uFDF0'..\uFEFE'
| '\uFF00'..\uFFFD'
; // ignores | [\u10000-\uEFFFF] ;

```

// -----

// Literals embedded in actions

//

// Note that we have made the assumption that the language used within

// actions uses the fairly standard " and ' delimiters for literals and

// that within these literals, characters are escaped using the \ character.

// There are some languages which do not conform to this in all cases, such

// as by using /string/ and so on. We will have to deal with such cases if

// if they come up in targets.

//

// Within actions, or other structures that are not part of the ANTLR

// syntax, we may encounter literal characters. Within these, we do

// not want to inadvertently match things like '}' and so we eat them

// specifically. While this rule is called CHAR it allows for the fact that

// some languages may use/allow ' as the string delimiter.

//

fragment

ACTION\_CHAR\_LITERAL

```

: "\"" ((\\)=>ACTION_ESC | ~\")* "\""
;

```

// Within actions, or other structures that are not part of the ANTLR

// syntax, we may encounter literal strings. Within these, we do

```

// not want to inadvertently match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
: "" ((\\)=>ACTION_ESC | ~"")* ""
;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.
//
fragment
ACTION_ESC
: '\\ .
;

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

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

// -----
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx or \u{xxxxxx},

```



```

// where x is a valid hexadecimal number.
STRING_LITERAL
: "\"" ((ESC_SEQ | ~("\\"|\r|\n))) *
 ("\""
 | // Unterminated string literal
 {
 Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
 t.setLine(state.tokenStartLine);
 t.setText(state.text);
 t.setCharPositionInLine(state.tokenStartCharPositionInLine);
 grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
 }
)
;

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
: '\\'
 (
 // The standard escaped character set such as tab, newline, etc...
 'b'|'t'|'n'|'f'|'r'|'\"'|'\\'

 | // A Java style Unicode escape sequence
 UNICODE_ESC

 | // A Swift/Hack style Unicode escape sequence
 UNICODE_EXTENDED_ESC

 | // An illegal escape sequence
 ~(b'|t'|n'|f'|r'|'\"'|'\\'|'u') // \x for any invalid x (make sure to match char here)
 {
 Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-2, getCharIndex()-1);
 t.setText(t.getText());
 t.setLine(input.getLine());
 t.setCharPositionInLine(input.getCharPositionInLine()-2);
 grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, input.substring(getCharIndex()-
2,getCharIndex()-1));
 }
)
;

```

```

fragment
UNICODE_ESC
@init {

 // Flag to tell us whether we have a valid number of
 // hex digits in the escape sequence
 //
 int hCount = 0;
}
: 'u' // Leadin for unicode escape sequence

 // We now require 4 hex digits. Note though
 // that we accept any number of characters
 // and issue an error if we do not get 4. We cannot
 // use an infinite count such as + because this
 // might consume too many, so we lay out the lexical
 // options and issue an error at the invalid paths.
 //
 (
 (
 HEX_DIGIT { hCount++; }
 (
 HEX_DIGIT { hCount++; }
 (
 HEX_DIGIT { hCount++; }
 (
 // Four valid hex digits, we are good
 //
 HEX_DIGIT { hCount++; }

 | // Three valid digits
)
 | // Two valid digits
)
 | // One valid digit
)
 | // No valid hex digits at all
)

 // Now check the digit count and issue an error if we need to
 //
 {
 if (hCount < 4) {
 Interval badRange = Interval.of(getCharIndex()-2-hCount, getCharIndex());

```

```

String lastChar = input.substring(badRange.b, badRange.b);
if (lastChar.codePointAt(0)=="\") {
 badRange.b--;
}
String bad = input.substring(badRange.a, badRange.b);
Token t = new CommonToken(input, state.type, state.channel, badRange.a, badRange.b);
t.setLine(input.getLine());
t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, bad);
}
}
;

fragment
UNICODE_EXTENDED_ESC
: 'u{' // Leadin for unicode extended escape sequence

 HEX_DIGIT+ // One or more hexadecimal digits

 '}' // Leadout for unicode extended escape sequence

// Now check the digit count and issue an error if we need to
{
 int numDigits = getCharIndex()-state.tokenStartCharIndex-6;
 if (numDigits > 6) {
 Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-
1);
 t.setText(t.getText());
 t.setLine(input.getLine());
 t.setCharPositionInLine(input.getCharPositionInLine()-numDigits);
 grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t,
input.substring(state.tokenStartCharIndex,getCharIndex()-1));
 }
}
;

// -----
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
: (
 ' '
 | '\t'
 | '\r'

```

```

 | '\n'
 | '\f'
)+
 {$channel=HIDDEN;}
;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
: '\n' | '\r'
;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
: ' ' | '\t' | '\f'
;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
: ' ' | '\t' | '\f' | '\n' | '\r'
;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
: '\uFEFF' {skip();}
;

// -----
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the gramamr file anyway

```

```

// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
: .
{
 Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
 t.setLine(state.tokenStartLine);
 t.setText(state.text);
 t.setCharPositionInLine(state.tokenStartCharPositionInLine);
 String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
 grammarError(ErrorType.SYNTAX_ERROR, t, msg);
 state.syntaxErrors++;
 skip();
}
;

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1015863373_1591325492.5/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/parse/ANTLRLexer.g

```

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\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/gui/GraphicsSupport.java

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\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg

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\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg

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*/

```

```
tree grammar ATNBuilder;
```

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

```

```
// Include the copyright in this source and also the generated source
```

```
@header {
```

```
/*
```

```
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```

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```
*/
```

```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}
```

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

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

```
ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
```

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

```
block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
```

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

```

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

```

```

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

```

```

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

```

```

lexerCommandExpr
: ID
| INT
;

```

```

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

```

```

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

```

```

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

```

```

;

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

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

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

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

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

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

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

```

```
| ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
| ^(TOKEN_REF .) {$p = factory.tokenRef((TerminalAST)$start);}
| TOKEN_REF {$p = factory.tokenRef((TerminalAST)$start);}
;
```

elementOptions

```
: ^(ELEMENT_OPTIONS elementOption*)
;
```

elementOption

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

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1015863373_1591325492.5/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/parse/ATNBuilder.g
```

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

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jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef\_ctx.java

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/TestSetInline.java

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/automata/LexerATNFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/ModelElement.java

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef.java

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/ANTLRMessage.java

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/chunk/ActionChunk.java

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/Target.java

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/OutputModelObject.java

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/misc/EscapeSequenceParsing.java

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/ast/RuleElementAST.java

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/SemPred.java

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-

jar/org/antlr/v4/codegen/LexerFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/MatchSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/Loop.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_type.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/ActionTranslator.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef\_start.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/ast/NotAST.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/Attribute.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/DefaultToolListener.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/Wildcard.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/Choice.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_pos.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/ast/OptionalBlockAST.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/Lexer.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/ast/TerminalAST.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/automata/ATNFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/ErrorSeverity.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/ast/GrammarAST.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef\_parser.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/automata/TailEpsilonRemover.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-

jar/org/antlr/v4/tool/AttributeDict.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef\_start.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/semantics/SymbolCollector.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/LL1OptionalBlockSingleAlt.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/LeftRecursionCyclesMessage.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/RuleFunction.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/LL1Loop.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/LabelRef.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_text.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef\_stop.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/semantics/SemanticPipeline.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/ast/SetAST.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/ListLabelRef.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_int.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/LL1AltBlock.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/ast/GrammarASTVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/analysis/AnalysisPipeline.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/target/GoTarget.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/RetValRef.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleAnalyzer.java

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/ParserFile.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/gui/TreePostScriptGenerator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef\_text.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/BlankOutputModelFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/chunk/TokenRef.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/analysis/LeftRecursionDetector.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/Rule.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/misc/Graph.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/AltBlock.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/tool/ast/RuleAST.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef\_text.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/parse/v4ParserException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/BaseListenerFile.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/AddToLabelList.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/tool/GrammarInterpreterRuleContext.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/RuleActionFunction.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/ListenerDispatchMethod.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/chunk/SetAttr.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/CodeGenPipeline.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/tool/LabelElementPair.java  
 \* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-

jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_index.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/misc/FrequencySet.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/OutputFile.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/UnicodeEscapes.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/gui/PostScriptDocument.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/LexerGrammar.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/semantics/AttributeChecks.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/ErrorMessage.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/semantics/RuleCollector.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef\_stop.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/misc/CharSupport.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/chunk/ActionText.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/AttributeResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/automata/ATNOptimizer.java

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\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/templates/codegen/Cpp/Files.stg

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\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/parse/ATNBuilder.java

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* /opt/ws_local/PERMITS_SQL/1015863373_1591325492.5/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg

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```

```

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

```

```

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

```

```

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

```

```

// Include the copyright in this source and also the generated source

```

```

@header {
/*

```

```

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\*/

```
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

@members {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

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

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
 CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
 setTreeNodeStream(nodes);
 try {
 Method m = getClass().getMethod(ruleName);
 m.invoke(this);
 }
 catch (Throwable e) {
 ErrorManager errMgr = getErrorManager();
 if (e instanceof InvocationTargetException) {
```

```

 e = e.getCause();
}
//e.printStackTrace(System.err);
if (errMgr==null) {
 System.err.println("can't find rule "+ruleName+
 " or tree structure error: "+t.toStringTree()
);
 e.printStackTrace(System.err);
}
else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
}
}

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

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

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

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

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST valueAST) { }

```

```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

protected void enterRules(GrammarAST tree) { }

```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }

protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }

protected void exitLexerElement(GrammarAST tree) { }

protected void enterLabeledLexerElement(GrammarAST tree) { }

protected void exitLabeledLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }

protected void exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }

protected void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }

protected void exitActionElement(GrammarAST tree) { }

protected void enterAlternative(AltAST tree) { }

protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }

protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }

protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }

protected void exitElement(GrammarAST tree) { }

protected void enterAstOperand(GrammarAST tree) { }

protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }

protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }

protected void exitSubrule(GrammarAST tree) { }

protected void enterLexerSubrule(GrammarAST tree) { }

protected void exitLexerSubrule(GrammarAST tree) { }

protected void enterBlockSuffix(GrammarAST tree) { }

protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```
@Override
```

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

```
@Override
```

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

```
grammarSpec
```

```
@init {
```

```
 enterGrammarSpec($start);
```

```
}
```

```
@after {
```

```
 exitGrammarSpec($start);
```

```
}
```

```
 : ^(GRAMMAR ID {grammarName=$ID.text;})
```

```

 {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
 prequelConstructs
 {finishPrequels($prequelConstructs.firstOne);}
 rules mode*
 {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
)
;

```

prequelConstructs returns [GrammarAST firstOne=null]

```

@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
: {$firstOne=$start;} prequelConstruct+
|
;

```

prequelConstruct

```

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

```

optionsSpec

```

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

```

option

```

@init {
 enterOption($start);
 boolean rule = inContext("RULE ...");
 boolean block = inContext("BLOCK ...");
}

```



```

}
@after {
exitOption($start);
}
: ^(a=ASSIGN ID v=optionValue)
{
if (block) blockOption($ID, $v.start); // most specific first
else if (rule) ruleOption($ID, $v.start);
else grammarOption($ID, $v.start);
}
;

```

optionValue returns [String v]

```

@init {
enterOptionValue($start);
$v = $start.token.getText();
}
@after {
exitOptionValue($start);
}
: ID
| STRING_LITERAL
| INT
;

```

delegateGrammars

```

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

```

delegateGrammar

```

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

```

tokensSpec

```

@init {

```

```

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

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

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

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

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

```

```

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

```

```

mode
@init {
 enterMode($start);
}
@after {
 exitMode($start);
}
: ^(MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule*)
;

```

```

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

```

```

rule
@init {
 enterRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
 currentOuterAltNumber=0;
}

```

```

@after {
 exitRule($start);
}
: ^(RULE RULE_REF {currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;}
 (^(RULEMODIFIERS (m=ruleModifier{mods.add($m.start);}+))?)
 ARG_ACTION?
 ret=ruleReturns?
 thr=throwsSpec?
 loc=locals?
 (opts=optionsSpec
 | a=ruleAction {actions.add($a.start);}
)*
 {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
 $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
 $thr.start, $opts.start,
 $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
 actions, (GrammarAST)input.LT(1));}
 ruleBlock exceptionGroup
 {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
)
;

```

exceptionGroup

```

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

```

exceptionHandler

```

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

```

finallyClause

```

@init {
 enterFinallyClause($start);
}
@after {
 exitFinallyClause($start);
}

```

```

}
: ^(FINALLY ACTION) {finallyAction((ActionAST)$ACTION);}
;

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

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

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

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

ruleModifier
@init {
enterRuleModifier($start);
}

```

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

lexerRuleBlock

```
@init {
 enterLexerRuleBlock($start);
}
@after {
 exitLexerRuleBlock($start);
}
: ^(BLOCK
 ({
 currentOuterAltRoot = (GrammarAST)input.LT(1);
 currentOuterAltNumber++;
 }
 lexerOuterAlternative
)+
)
;
```

ruleBlock

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

lexerOuterAlternative

```
@init {
 enterLexerOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
;
```

```
@after {
 finishOuterAlt((AltAST)$start);
 exitLexerOuterAlternative((AltAST)$start);
}
: lexerAlternative
;
```

```
outerAlternative
@init {
 enterOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitOuterAlternative((AltAST)$start);
}
: alternative
;
```

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

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

```
lexerElement
@init {
 enterLexerElement($start);
}
@after {
 exitLexerElement($start);
}
```

```

: labeledLexerElement
| lexerAtom
| lexerSubrule
| ACTION {actionInAlt((ActionAST)$ACTION);}
| SEMPRED {sempredInAlt((PredAST)$SEMPRED);}
| ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| EPSILON
;

```

```

labeledLexerElement
@init {
 enterLabeledLexerElement($start);
}
@after {
 exitLabeledLexerElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))
;

```

```

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

```

```

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

```

```

actionElement

```



```

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

```

alternative

```

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

```

lexerCommand

```

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

```

lexerCommandExpr

```

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

```

```

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

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

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

subrule
@init {
 enterSubrule($start);
}
@after {
 exitSubrule($start);
}

```

```
}
: ^(blockSuffix block)
| block
;
```

lexerSubrule

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

blockSuffix

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

ebnfSuffix

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

atom

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

```

| WILDCARD {wildcardRef($WILDCARD);}
| terminal
| blockSet
| ruleref
;

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

setElement
@init {
enterSetElement($start);
}
@after {
exitSetElement($start);
}
: ^(STRING_LITERAL elementOptions) {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{
stringRef((TerminalAST)$a);
stringRef((TerminalAST)$b);
}
| LEXER_CHAR_SET
;

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

ruleref
@init {
enterRuleref($start);
}

```

```

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

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

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

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

elementOption[GrammarASTWithOptions t]
@init {
enterElementOption($start);
}

```

```

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

```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.g

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\* /opt/ws\_local/PERMITS\_SQL/1015863373\_1591325492.5/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg

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 \*/

```
lexer grammar ActionSplitter;
```

```
options { filter=true; }
```

```
@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}
```

```
@members {
ActionSplitterListener delegate;
```

```
public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
 this(input, new RecognizerSharedState());
 this.delegate = delegate;
}
```

```
/** force filtering (and return tokens). triggers all above actions. */
```

```
public List<Token> getActionTokens() {
 List<Token> chunks = new ArrayList<Token>();
```



```

Token t = nextToken();
while (t.getType()!=Token.EOF) {
 chunks.add(t);
 t = nextToken();
}
return chunks;
}

private boolean isIDStartChar(int c) {
return c == '_' || Character.isLetter(c);
}
}

// ignore comments right away

COMMENT
: /*(options {greedy=false;} : .)* */ {delegate.text($text);}
;

LINE_COMMENT
: //' ~(\n|\r)* \r? \n' {delegate.text($text);}
;

SET_NONLOCAL_ATTR
: '$ x=ID ':' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
delegate.setNonLocalAttr($text, $x, $y, $expr);
}
;

NONLOCAL_ATTR
: '$ x=ID ':' y=ID {delegate.nonLocalAttr($text, $x, $y);}
;

QUALIFIED_ATTR
: '$ x=ID ' y=ID {input.LA(1)!=''}? {delegate.qualifiedAttr($text, $x, $y);}
;

SET_ATTR
: '$ x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
delegate.setAttr($text, $x, $expr);
}
;

ATTR
: '$ x=ID {delegate.attr($text, $x);}
;

```

```

// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
: (c=~("\| '$) {buf.append((char)$c);}
| '\$' {buf.append('$);}
| '\ c=~('$) {buf.append('\').append((char)$c);}
| {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$);}
)+
;

fragment
ID : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
fragment
ATTR_VALUE_EXPR
: ~'=' (~';')*
;

fragment
WS : (' '\t' '\n' '\r')+
;

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1015863373_1591325492.5/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/parse/ActionSplitter.g

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```

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```
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```

```
tree grammar SourceGenTriggers;
```

```
options {
 language = Java;
 tokenVocab = ANTLRParser;
 ASTLabelType = GrammarAST;
}
```

```
@header {
package org.antlr.v4.codegen;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.codegen.model.*;
import org.antlr.v4.codegen.model.decl.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.Collections;
import java.util.Map;
import java.util.HashMap;
}
```

```

@members {
public OutputModelController controller;
public boolean hasLookaheadBlock;
public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
this(input);
this.controller = controller;
}
}

```

```
dummy : block[null, null] ;
```

```

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

```

```
alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
```

```

@init {
boolean outerMost = inContext("RULE BLOCK");
}
@after {
controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
: a=alt[outerMost] { $altCodeBlock=$a.altCodeBlock; $ops=$a.ops; }
;

```

```
alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
```

```

@init {
// set alt if outer ALT only (the only ones with alt field set to Alternative object)
AltAST altAST = (AltAST)retval.start;
if (outerMost) controller.setCurrentOuterMostAlt(altAST.alt);
}
: {
List<SrcOp> elems = new ArrayList<SrcOp>();
// TODO: shouldn't we pass $start to controller.alternative()?

```

```

$altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
$altCodeBlock.ops = $ops = elems;
controller.setCurrentBlock($altCodeBlock);
}
^(ALT elementOptions? (element {if ($element.omos!=null) elems.addAll($element.omos);})+)

| ^(ALT elementOptions? EPSILON)
 {$altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
;

element returns [List<? extends SrcOp> omos]
: labeledElement {$omos = $labeledElement.omos;}
| atom[null,false] {$omos = $atom.omos;}
| subrule {$omos = $subrule.omos;}
| ACTION {$omos = controller.action((ActionAST)$ACTION);}
| SEMPRED {$omos = controller.sempred((ActionAST)$SEMPRED);}
| ^(ACTION elementOptions) {$omos = controller.action((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {$omos = controller.sempred((ActionAST)$SEMPRED);}
;

labeledElement returns [List<? extends SrcOp> omos]
: ^(ASSIGN ID atom[$ID,false]) {$omos = $atom.omos;}
| ^(PLUS_ASSIGN ID atom[$ID,false]) {$omos = $atom.omos;}
| ^(ASSIGN ID block[$ID,null]) {$omos = $block.omos;}
| ^(PLUS_ASSIGN ID block[$ID,null]) {$omos = $block.omos;}
;

subrule returns [List<? extends SrcOp> omos]
: ^(OPTIONAL b=block[null,$OPTIONAL])
{
 $omos = $block.omos;
}
| (^(op=CLOSURE b=block[null,null])
| ^(op=POSITIVE_CLOSURE b=block[null,null])
)
{
 List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
 SrcOp blk = $b.omos.get(0);
 CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
 alt.addOp(blk);
 alts.add(alt);
 SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
 hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
 $omos = DefaultOutputModelFactory.list(loop);
}
| block[null, null] {$omos = $block.omos;}
;

```

```

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
 : ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
 ;

/*
setElement
: STRING_LITERAL
| TOKEN_REF
| ^(RANGE STRING_LITERAL STRING_LITERAL)
;
*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(NOT a=atom[$label, true]) {$omos = $a.omos;}
| range[label] {$omos = $range.omos;}
| ^(DOT ID terminal[$label])
| ^(DOT ID ruleref[$label])
| ^(WILDCARD .) {$omos = controller.wildcard($WILDCARD, $label);}
| WILDCARD {$omos = controller.wildcard($WILDCARD, $label);}
| terminal[label] {$omos = $terminal.omos;}
| ruleref[label] {$omos = $ruleref.omos;}
| blockSet[$label, invert] {$omos = $blockSet.omos;}
;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
 : ^(RULE_REF ARG_ACTION? elementOptions?) {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
 ;

range[GrammarAST label] returns [List<SrcOp> omos]
 : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
 ;

terminal[GrammarAST label] returns [List<SrcOp> omos]
 : ^(STRING_LITERAL .) {$omos = controller.stringRef($STRING_LITERAL, $label);}
 | STRING_LITERAL {$omos = controller.stringRef($STRING_LITERAL, $label);}
 | ^(TOKEN_REF ARG_ACTION .) {$omos = controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
 | ^(TOKEN_REF .) {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
 | TOKEN_REF {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
 ;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption+)
 ;

elementOption

```

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

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1015863373_1591325492.5/0/antlr4-4-7-1-sources-
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```

```
*/
```

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jar/org/antlr/v4/parse/GrammarTreeVisitor.java
```



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* /opt/cola/permits/1114653533_1607543452.06/0/google-api-services-bigquery-v2-rev295-1-22-0-sources-1-jar/com/google/api/services/bigquery/model/JobStatistics4.java
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* /opt/cola/permits/1114653533_1607543452.06/0/google-api-services-bigquery-v2-rev295-1-22-0-sources-1-jar/com/google/api/services/bigquery/model/TableRow.java
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jar/com/google/api/services/bigquery/model/JobCancelResponse.java  
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jar/com/google/api/services/bigquery/model/BigtableColumnFamily.java  
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jar/com/google/api/services/bigquery/model/TableList.java  
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jar/com/google/api/services/bigquery/model/QueryResponse.java  
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jar/com/google/api/services/bigquery/model/JsonObject.java  
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jar/com/google/api/services/bigquery/model/TableDataList.java  
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jar/com/google/api/services/bigquery/model/DatasetList.java  
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jar/com/google/api/services/bigquery/model/GoogleSheetsOptions.java  
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## 1.537 asm 2.2.0

## 1.538 socket.io-adapter 0.5.0 0.5.0

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```

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## 1.541 protobuf-java-util 3.5.1

## 1.542 co 4.6.0 4.6.0

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# 1.544 json-smart 2.3

# 1.545 dtrace-provider 0.8.5 0.8.5

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*/
```

Found in path(s):

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

```
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```

Found in path(s):

\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Pipe.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/HashingSource.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/HashingSink.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Options.java

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Found in path(s):

\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Util.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Buffer.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Segment.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/ForwardingSource.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/RealBufferedSource.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Timeout.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Sink.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/SegmentPool.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/GzipSink.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/DeflaterSink.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Okio.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/AsyncTimeout.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/BufferedSource.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/InflaterSource.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/BufferedSink.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Source.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/RealBufferedSink.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/ForwardingSink.java  
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/GzipSource.java

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\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Base64.java

## 1.559 referrer-policy 1.0.0 1.0.0

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## 1.560 jtoml 1.0.0

## 1.561 express 4.13.4 4.13.4

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# 1.564 google-api-services-storage v1-rev71-1.22.0

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
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 <organization>
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 <url>http://www.google.com/</url>
 </organization>

 <licenses>
 <license>
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 <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
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 </licenses>

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 <windowtitle>Cloud Storage JSON API ${project.version}</windowtitle>
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 <link>http://javadoc.google-oauth-java-client.googlecode.com/hg/1.22.0</link>

 <link>http://javadoc.google-api-java-client.googlecode.com/hg/1.22.0</link>
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</plugin>
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</build>

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 <artifactId>google-api-client</artifactId>
 <version>1.22.0</version>
 </dependency>
</dependencies>

<properties>
 <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>

```

</properties>

</project>

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\* /opt/cola/permits/1114653609\_1607543420.44/0/google-api-services-storage-v1-rev71-1-22-0-jar/META-INF/maven/com.google.apis.google-api-services-storage/pom.xml

## 1.565 reflectasm 1.09

## 1.566 extend 3.0.1 3.0.1

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Found in path(s):

```
* /opt/cola/permits/115342115_1646171445.14/0/jbcrypt-0-4-sources-5-jar/org/mindrot/jbcrypt/BCrypt.java
```

## 1.569 zookeeper 3.4.10

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```
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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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\* /opt/cola/permits/1000715165\_1606873040.28/0/hpack-0-10-1-sources-1-

jar/com/twitter/hpack/HuffmanDecoder.java

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- \* /opt/cola/permits/1000738314\_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Singleton.java
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- \* /opt/cola/permits/1000738314\_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Scope.java
- \* /opt/cola/permits/1000738314\_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Qualifier.java
- \* /opt/cola/permits/1000738314\_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Named.java
- \* /opt/cola/permits/1000738314\_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Provider.java
- \* /opt/cola/permits/1000738314\_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/package-info.java

## 1.588 core-module 1.1.7

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## 1.591 googleauthlibraryoauthhttp 0.17.1

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# 1.593 eclipse-osgi-services

## 3.3.100.v20130513-1956

# 1.594 swagger-annotations 1.5.16

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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/OAI/OpenAPI-Specification/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 "";
}
```

## 1.595 strip-ansi 3.0.1 3.0.1

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## 1.596 mongo-java-driver 3.0.4

## 1.597 vary 1.1.2 1.1.2

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## 1.598 babel-plugin-transform-object-rest-spread 6.26.0 6.26.0

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# 1.599 accepts 1.2.13 1.2.13

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# 1.600 babel-helper-remap-async-to-generator

## 6.24.1 6.24.1

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## 1.601 jersey-container-servlet 2.5.1

## 1.602 google-http-client-jackson2 1.20.0

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\* /opt/cola/permits/1120699419\_1615669511.18/0/google-http-client-jackson-1-20-0-sources-2-jar/com/google/api/client/json/jackson/package-info.java

\* /opt/cola/permits/1120699419\_1615669511.18/0/google-http-client-jackson-1-20-0-sources-2-jar/com/google/api/client/json/jackson/JacksonParser.java

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# 1.603 ms 0.7.2 0.7.2

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jar/org/objectweb/asm/xml/Processor.java  
\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-  
jar/org/objectweb/asm/xml/SAXCodeAdapter.java  
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jar/org/objectweb/asm/xml/SAXClassAdapter.java  
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jar/org/objectweb/asm/xml/SAXAdapter.java  
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jar/org/objectweb/asm/xml/ASMContentHandler.java  
\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-  
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java  
\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-  
jar/org/objectweb/asm/xml/SAXFieldAdapter.java

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\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-

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```

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```

```
*/
```

```
/**
```

```
* Constructs a new {@link Textifier}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the {@link #Textifier(int)}
* version.
*/
```

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jar/org/objectweb/asm/util/Textifier.java

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jar/org/objectweb/asm/util/Textifiable.java

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jar/org/objectweb/asm/TypePath.java  
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\*/  
/\*\*

\* Constructs a new {@link ClassNode}. <i>Subclasses must not use this  
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\* version.  
\*/

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/\*\*

\* Creates a new {@link AnalyzerAdapter}. *Subclasses must not use this*

\* constructor*.* Instead, they must use the

\* {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}

\* version.

\*

\* @param owner

\* the owner's class name.

\* @param access

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

\* @param name

\* the method's name.

\* @param desc

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

```
* @param mv
* the method visitor to which this adapter delegates calls. May
* be <tt>null</tt>.
*/
```

Found in path(s):

```
* /opt/cola/permits/1001160931_1611561105.43/0/asm-all-repackaged-2-2-0-sources-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java
```

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```
* /opt/cola/permits/1001160931_1611561105.43/0/asm-all-repackaged-2-2-0-sources-
jar/org/objectweb/asm/xml/asm-xml.dtd
```

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```
/**
```

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*/
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 * the first instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 * @param desc
 * the class descriptor of the annotation class.
 */

```



Found in path(s):

\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

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\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/signature/package.html

\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/util/package.html

\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/tree/package.html

\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/commons/package.html

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\*/

/\*\*

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

```
* @param signature
* the method's signature. May be <tt>null</tt>.
* @param exceptions
* the internal names of the method's exception classes (see
* { @link Type#getInternalName() getInternalName }). May be
* <tt>null</tt>.
*/
```

Found in path(s):

```
*/opt/cola/permits/1001160931_1611561105.43/0/asm-all-repackaged-2-2-0-sources-
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
```

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\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/util/TraceSignatureVisitor.java

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\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java

\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/optimizer/NameMapping.java

\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/tree/analysis/Subroutine.java

\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java

\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/commons/TableSwitchGenerator.java

\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/optimizer/ClassOptimizer.java

\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/tree/AbstractInsnNode.java

\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/tree/InsnNode.java

\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/tree/AnnotationNode.java

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\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/AnnotationWriter.java

\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/tree/analysis/SmallSet.java

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\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java

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\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/tree/MethodNode.java  
\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/util/CheckMethodAdapter.java  
\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/commons/RemappingClassAdapter.java  
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\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/commons/AdviceAdapter.java  
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\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java

\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/util/TraceMethodVisitor.java

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\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/util/CheckClassAdapter.java

\* /opt/cola/permits/1001160931\_1611561105.43/0/asm-all-repackaged-2-2-0-sources-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java

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/\*\*

\* Creates a new { @link GeneratorAdapter}. *Subclasses must not use this*

\* constructor*</i>*. Instead, they must use the

\* { @link #GeneratorAdapter(int, MethodVisitor, int, String, String)}

\* version.

\*

\* @param mv

\* the method visitor to which this adapter delegates calls.

\* @param access

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

\* @param name

\* the method's name.

\* @param desc

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

\*/

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\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/ATNSimulator.java

\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/PredictionContextCache.java

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\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
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\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/tree/ParseTreeVisitor.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/tree/ParseTreeListener.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/tree/xpath/XPathRuleElement.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/misc/LogManager.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/tree/xpath/XPathWildcardAnywhereElement.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/tree/xpath/XPathElement.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/atn/LexerATNSimulator.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/tree/xpath/XPathLexer.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/atn/AtomTransition.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/tree/pattern/Chunk.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/misc/FlexibleHashMap.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/misc/Interval.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/misc/Triple.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/atn/RuleStartState.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/CharStreams.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/misc/OrderedHashSet.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/atn/PredicateEvalInfo.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/atn/LoopEndState.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-

jar/org/antlr/v4/runtime/tree/xpath/XPathRuleAnywhereElement.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/tree/TreeNodeImpl.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/atn/LexerPopModeAction.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/atn/DecisionInfo.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/atn/BasicState.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/tree/IterativeParseTreeWalker.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/ConsoleErrorListener.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/TokenFactory.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/BufferedTokenStream.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/misc/Utils.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/LexerInterpreter.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/BaseErrorListener.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/tree/TerminalNodeImpl.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/atn/ATNType.java  
\* /opt/cola/permits/1003993603\_1651084856.54/0/antlr4-runtime-4-7-2-sources-  
jar/org/antlr/v4/runtime/atn/LexerModeAction.java

# 1.617 json-simple 1.1.1

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```
* /opt/cola/permits/1001159965_1606872916.45/0/protobuf-javanano-3-0-0-alpha-4-sources-1-
jar/com/google/protobuf/nano/MapFactories.java
* /opt/cola/permits/1001159965_1606872916.45/0/protobuf-javanano-3-0-0-alpha-4-sources-1-
jar/com/google/protobuf/nano/ExtendableMessageNano.java
* /opt/cola/permits/1001159965_1606872916.45/0/protobuf-javanano-3-0-0-alpha-4-sources-1-
jar/com/google/protobuf/nano/CodedOutputByteBufferNano.java
* /opt/cola/permits/1001159965_1606872916.45/0/protobuf-javanano-3-0-0-alpha-4-sources-1-
jar/com/google/protobuf/nano/MessageNanoPrinter.java
* /opt/cola/permits/1001159965_1606872916.45/0/protobuf-javanano-3-0-0-alpha-4-sources-1-
jar/com/google/protobuf/nano/WireFormatNano.java
* /opt/cola/permits/1001159965_1606872916.45/0/protobuf-javanano-3-0-0-alpha-4-sources-1-
jar/com/google/protobuf/nano/UnknownFieldData.java
* /opt/cola/permits/1001159965_1606872916.45/0/protobuf-javanano-3-0-0-alpha-4-sources-1-
jar/com/google/protobuf/nano/InvalidProtocolBufferNanoException.java
* /opt/cola/permits/1001159965_1606872916.45/0/protobuf-javanano-3-0-0-alpha-4-sources-1-
jar/com/google/protobuf/nano/Extension.java
* /opt/cola/permits/1001159965_1606872916.45/0/protobuf-javanano-3-0-0-alpha-4-sources-1-
jar/com/google/protobuf/nano/MessageNano.java
* /opt/cola/permits/1001159965_1606872916.45/0/protobuf-javanano-3-0-0-alpha-4-sources-1-
jar/com/google/protobuf/nano/CodedInputByteBufferNano.java
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jar/com/google/protobuf/nano/FieldArray.java
* /opt/cola/permits/1001159965_1606872916.45/0/protobuf-javanano-3-0-0-alpha-4-sources-1-
jar/com/google/protobuf/nano/FieldData.java
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## 1.619 es6-promise 3.2.1 3.2.1

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## 1.628 mime-db 1.30.0 1.30.0

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# 1.638 form-data 2.3.1 2.3.1

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# 1.640 google-api 1.20.0

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# 1.641 index of 0.0.1 0.0.1

## 1.642 ultron 1.1.1 1.1.1

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* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
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# 1.645 bouncycastle-fips 1.64

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

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

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- <li>Michal Dvorak &lt;M\_Dvorak&#064;kb.cz&gt; - getNextUpdate patch for OCSP SingleResp.
- <li>Klaus Greve Fiorentini &lt;Klaus&#064;cpqd.com.br&gt; - array fix in PGP PublicKeyEncSessionPacket.
- <li>Olivier Refalo &lt;Olivier\_Refalo&#064;fpl.com&gt; - null pointer exception fix for JDK 1.3 CMSSignedData objects.
- <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&#064transacttools.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&#064haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.</li>

<li>Jonathan Edwards &lt;s34gull&#064mac.com&gt; - initial support for reading multiple rings from a PGP key file.</li>

<li>Andrew Thornton &lt;andrew&#064caret.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.</li>

<li>Gregor Leander &lt;gl&#064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.</li>

<li>Antoon Bosselaers &lt;Antoon.Bosselaers&#064esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.</li>

<li>Peter Sylvester &lt;Peter.Sylvester&#064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.</li>

<li>Doug &lt;ummmm&#064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.</li>

<li>Francois Staes &lt;fstaes&#064netconsult.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&#064cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPPublicKey to fix nullpointer exception.</li>

<li>Perez Paz Luis Alberto &lt;laperez&#064banxico.org.mx&gt; - patch to use of BitString in X.500 name.</li>

<li>James Wright &lt;James\_Wright&#064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.</li>

<li>Jim Ford &lt;jim&#064muirford.com&gt; - 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&#064ponton-consulting.de&gt; - extra aliases for provider.</li>

<li>Sai Pullabhotla &lt;psai&#064linoma.com&gt; - 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;jgengelbach&#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 Scendoni &lt;nscendoni&#064babelps.it&gt; - patch to add sorting to CertPath validation.</li>  
<li>Ville Skytt&uml; &lt;ville.skytta&#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 Delgado &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-egee.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 Bolshakov &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 ASNIDump.</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@credit-suisse.com>; - fix for 31 byte issue and exception throwing by Whirlpool.</li>

<li>David M. Lee &lt;dmlee@crossroads.com>; - 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@embody.org>; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>

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

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

<li>David M. Lee &lt;dmlee@crossroads.com>; - implementation assistance with streaming CMS classes.</li>

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

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

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

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

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

<li>Andreas Schwier &lt;andreas.schwier@cardcontact.de>; - 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@transacttools.net>; - Patch for trailer function in version 2 signature packets.</li>

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

<li>Lawrence Tan &lt;lwrnctan@gmail.com> - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>

<li>Carlos Valiente &lt;superdupont@gmail.com>; - 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@bluewin.ch>; - 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@ponton-consulting.de>; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>

<li>Karsten Ohme &lt;widerstand@t-online.de>; - 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@tradise.com>; - patch for &lt;ctrl>;&lt;m>; only handling in CRLFOutputStream.</li>

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

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

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

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

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

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

<li>Lijun Liao &lt;https://github.com/xipki>; 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@gmail.com>; - support for tags > 30 in ASN.1 parsing.</li>

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

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

<li>Xavier Le Vouch &lt;xavier@brittanysoftware.com>; - general code clean ups.</li>

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

<li>Thomas Dixon &lt;reikomusha@gmail.com>; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>

<li>Frank Cornelis &lt;info@frankcornelis.be>;- addition of crlAccessMethod in X509ObjectIdentifiers.</li>

<li>Rui Joaquim &lt;rjoaquim@cc.isel.ipl.pt>; - initial implementation of RSA blinding for signatures.</li>

<li>David Stacey &lt;DStacey@allantgroup.com>; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>

<li>Martijn Brinkers &lt;list@mitm.nl>; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>

<li>Julius Davies &lt;juliusdavies@gmail.com>; - additional modes and algorithm support in PEMReader</li>

<li>Matthias &lt;g@rtner.de>; - GnuPG compatibility changes for PBEFileProcessor.</li>

<li>Olga K&uuml;thler &lt;olga.kaethler@hjp-consulting.com>; - 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@gmail.com>; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>

<li>N&uacute;ria Mar&iacute; &lt;numaa@hotmail.com>; - patch for alternate data type recognition in CMSSignedDataParser.</li>

<li>Janis Schuller &lt;js@tzi.de>; - addition of NotationData packets for OpenPGP.</li>

<li>Michael Samblanet &lt;mike@samblanet.com>; - patches towards improved Sun/default provider



support in CMS.</li>  
<li>Mike StJohns &lt;mstjohns@comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li>  
<li>Ramon Keller &lt;ramon.keller@gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>  
<li>Mark Nelson &lt;mark@nabr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li>  
<li>Eugene Golushkov &lt;eugene\_gff@ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li>  
<li>Julien Pasquier &lt;julienpasquier@free.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@mtg.de&gt; - fix for named curve recognition in ECGOST key generation.</li>  
<li>Jakub Gwozdz &lt;gwozdziu@rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.</li>  
<li>Bartosz Malkowski &lt;bmalkow@tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>  
<li>Tal Yacobi &lt;tal.yacobi@octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li>  
<li>Massimiliano Ziccardi &lt;massimiliano.ziccardi@gmail.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@gmail.com&gt; - security manager patch for PKCS1Encoding property check.</li>  
<li>J Ross Nicoll &lt;jrn@jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>  
<li>Matthew Stevenson &lt;mavricknz@yahoo.com&gt; - patch to construtor for CRMF CertSequence.</li>  
<li>Gabriele Contini &lt;gcontini@hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.</li>  
<li>Roelof Naude &lt;roelof.naude@epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP\_CERTIFICATE\_REQUEST.</li>  
<li>Patrick Peck &lt;peck@signaturen.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>  
<li>Michael LeMay &lt;lemaymd@lemaymd.com&gt; - identified problem with EAX [#BJA-93].</li>  
<li>Alex Dupre &lt;ale@FreeBSD.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@sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>  
<li>Ion Larrañaga &lt;ilarra@s21sec.com&gt; fix to default partial packet generation in BCPGOutputStream.</li>  
<li>Bob Kerns &lt;bob.kerns@positscience.com&gt; fix to hashCode for X509CertificateObject.</li>  
<li>Stefan Meyer &lt;stefan.meyer@ewe.de&gt; backport for PKIXCertPathValidotor and SMIMESignedMailReviewer.</li>  
<li>Robert J. Moore &lt;Robert.J.Moore@allanbank.com&gt; speedups for OpenPGPCFB mode, clean room JCE patches.</li>  
<li>Rui Hodai &lt;rui@po.ntts.co.jp&gt; speed ups for Camellia implementation, CamelliaLightEngine.</li>  
<li>Emir Bucalovic &lt;emir.bucalovic@mail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>  
<li>Torbjorn Svensson &lt;tobbe79@gmail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>  
<li>Paul FitzPatrick &lt;bouncycastle\_pfitz@fitzpatrick.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 OAPEncoding.</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@#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 PCKS10 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 ISO9797A1g3Mac.</li>
- <li>Alf Malf &lt;alfilmalf@#064hotmail.com&gt; 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 Sikocinski &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 PGPKeyRing.</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 Bukt &lt;tbukt@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 &lt;xiao.xj@gmail.com>; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
- <li>Eleriseth &lt;Eleriseth@WPECGLtYbVi8Rl6Y7Vz12Lv2EUVW99v3yNV3IWROG8.fms>; speed up for SIC/CTR mode. Provider compatilby 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, intial 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.

Marcus Lundblad <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.

Andrey Zhozhin <zhozhin@xrm.ru>; patch for override of TSP SignerInfo attributes.

Sergey Tiunov <t5555d@gmail.com>; initial cut of DVCS classes.

Damian Kolasa <fatfredy@gmail.com>; ASN1Sequence patch for class cast issue in X9Curve.

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

Daniel Hirscher <dev@daniel-hirscher.de>; patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci <daniele.athome@gmail.com>; initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio <matti.aarnio@methics.fi>; 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.

Babak Najafi <bnajafi@akamai.com>; fixes to OpenPGP NotationData to prevent truncation problems.

Eric Mueller <eric.mueller@sage.de>; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts <Mathias.Herberts@gmail.com>; fix to inOff usage in RFC3394WrapEngine.

Daniil Ivanov <daniil.ivanov@gmail.com>; addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso <daniele.grasso86@gmail.com>; contributions to final Key calculation code for SRP6.

Andrey Utkin <cindrhc@gmail.com>; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu <arnis@ut.ee>; checker for generated key vs OID in JceCMSContentEncryptorBuilder.

AxelVDB <axel-vdb@riseup.net>; initial implementation of Shacal2.

Roberto Tyley <>; further work on completing gradle build.

Waldemar Dick <wdick@devmue.de>; code improvement in x500 ASN.1 package.

Sid Steward <sid.steward@pdflabs.com>; code improvements to ASN1Boolean.

Alex Klyubin <klyubin@google.com>; AlgorithmParameters check for EC key agreement.

Jonathan Gillett <gsoc.student@gmail.com>; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.

Andreas Reiter <andreas.reiter@iaik.tugraz.at>; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

Kieran Miller <kieran.miller@gmail.com>; initial implementation for RFC 5649 key wrap with padding.

Oliver Ehli <ehli@arago.de>; Additional support for BSI plain ECDSA in the provider.

Daniel Heldt <Daniel.Heldt@cryptovision.com>; 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 Kapitza&lt;j.kapitza&#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>IartiguePierre&lt;https://github.com/IartiguePierre&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 DiCroce&lt;https://github.com/rdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
- <li>Bj&ouml;rjn Kautler&lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).</li>
- <li>Dominik Sch&uuml;rmann&lt;https://github.com/dschuermann&gt; 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&gt; 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&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>
- <li>Sergio Giro &lt;sgiro&#064google.com&gt; 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>bschuetter&lt;https://github.com/bschuetter&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>
- <li>Leonard Dallot&lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
- <li>Jan Willem Janssen &lt;j.w.janssen+bouncycastle&#064lxtrême.nl&gt; Support for DSAParameters in

lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>  
<li>Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.</li>  
<li>Kai Kramer &lt;kai.kramer#064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>  
<li>Benoit Charles &lt;benoit.charles#064opentrust.com&gt; Fix for IES data length check on decryption.</li>  
<li>Niko &lt;nink95#064gmail.com&gt; fix to cast issue in getOutputSize() for ECIES.</li>  
<li>akwizgran&lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.</li>  
<li>Matthias Edelhoff &lt;Matthias.Edelhoff#064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>  
<li>Lukasz Deputat &lt;lukasz.deputat#064gmail.com&gt; Fixed bugs in TlsUtils read methods [#BJA-592].</li>  
<li>Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.</li>  
<li>Andr e Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi</li>  
<li>Slawomir Jaranowski&lt;https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>  
<li>Andrey Vasilyev&lt;https://github.com/andrey-vasilyev&gt; 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;storojs72#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;storojs72#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>; 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@064bit3consulting.com>; performance fixes for CTRSP800DRBG.</li>  
<li>David Strawn &lt;https://github.com/isomarcate>; fix for off by one error in SCRYPT bounds checking.</li>  
<li>chris mccown &lt;0xchrismccown@064gmail.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/flooey>; 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 Nexsar &lt;https://github.com/nros>; update to OpenPGP package to handle a broader range of EC curves.</li>  
<li>catbref &lt;https://github.com/catbref>; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>  
<li>gerlion &lt;https://github.com/gerlion>; detection of concurrency issue with pre-1.60 EC math library.</li>  
<li>fgrieu &lt;fgrieu@064gmail.com>; identification and suggested fixes for possible timing vulnerability in OAEP encoding and RSACoreEngine.</li>  
<li>MTG &lt;https://github.com/mtgag>; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>  
<li>Andreas Gadermaier &lt;up.gadermaier@064gmail.com>; initial version of Argon2 PBKDF algorithm.</li>  
<li>Tony Washer &lt;tony.washer@yahoo.co.uk>; 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>; initial version of RFC 4998 ASN.1 classes.</li>  
<li>Tony Washer &lt;https://github.com/tonywasher>; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.</li>  
<li>Aurimas Liutikas &lt;https://github.com/liutikas>; 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&eacute;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 &gt;tobias&#064pentagrid.ch&lt; Identification of 1.63 regression in ASN.1 parsing.</li>

</ul>

</body>

</html>

# 1.646 buffermaker 1.2.0 1.2.0

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# 1.647 log4j-api 2.11.1

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## 1.657 netty-codec-http 4.1.32

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jar/com/google/api/client/util/ExponentialBackOff.java  
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\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-  
jar/com/google/api/client/testing/http/package-info.java  
\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-  
jar/com/google/api/client/util/NullValue.java  
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jar/com/google/api/client/http/ByteArrayContent.java



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\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/http/apache/ApacheHttpRequest.java  
\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/util/escape/UnicodeEscaper.java  
\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/json/JsonParser.java

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\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/util/BackOffUtils.java

\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/util/Throwables.java

\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/util/store/DataStoreFactory.java

\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/testing/http/apache/MockHttpClient.java

\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/util/store/AbstractMemoryDataStore.java

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\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/util/Objects.java

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\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/http/HttpBackOffUnsuccessfulResponseHandler.java

\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/testing/http/apache/package-info.java

\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/util/store/AbstractDataStore.java

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\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/json/webtoken/package-info.java  
\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/util/Joiner.java  
\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/util/Lists.java  
\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/util/SecurityUtils.java  
\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/testing/json/MockJsonGenerator.java  
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\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/testing/util/TestableByteArrayInputStream.java  
\* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/testing/util/TestableByteArrayOutputStream.java  
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- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/http/EmptyContent.java
- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/util/Clock.java
- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/testing/http/javanet/package-info.java
- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/testing/util/LogRecordingHandler.java
- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/testing/http/javanet/MockURLConnection.java
- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/http/HttpMediaType.java
- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/util/SslUtils.java
- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/util/ByteCountingOutputStream.java
- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/json/webtoken/JsonWebSignature.java
- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/http/HttpEncoding.java
- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/testing/util/package-info.java
- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/util/IOUtils.java
- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/util/StreamingContent.java
- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/util/LoggingByteArrayOutputStream.java
- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/util/Base64.java
- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/json/JsonObjectParser.java
- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/http/GZipEncoding.java
- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/http/HttpEncodingStreamingContent.java
- \* /opt/cola/permits/1001160259\_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/testing/http/FixedClock.java

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* /opt/cola/permits/1001160259_1646171606.05/0/google-http-client-1-22-0-sources-
jar/com/google/api/client/json/webtoken/JsonWebToken.java
* /opt/cola/permits/1001160259_1646171606.05/0/google-http-client-1-22-0-sources-
jar/com/google/api/client/util/LoggingOutputStream.java
* /opt/cola/permits/1001160259_1646171606.05/0/google-http-client-1-22-0-sources-
jar/com/google/api/client/util/ByteArrayStreamingContent.java
* /opt/cola/permits/1001160259_1646171606.05/0/google-http-client-1-22-0-sources-
jar/com/google/api/client/util/ObjectParser.java
* /opt/cola/permits/1001160259_1646171606.05/0/google-http-client-1-22-0-sources-
jar/com/google/api/client/util/LoggingInputStream.java
* /opt/cola/permits/1001160259_1646171606.05/0/google-http-client-1-22-0-sources-
jar/com/google/api/client/util/StringUtils.java
```

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## 1.663 lz4-java 1.4.1

## 1.664 metrics 3.1.0

## 1.665 glob 6.0.4 6.0.4

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## 1.667 javax-json-api 1.0

## 1.668 verror 1.10.0 1.10.0

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 */
/**
 * Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
 * {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
 * it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
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 */
/**
 * Not supported. You are attempting to create a map that may contain a non-{@code Comparable}
 * key. Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated Pass a key of type {@code Comparable} to use {@link
 * ImmutableSortedMap#of(Comparable, Object)}.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
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```

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jar/com/google/common/collect/ForwardingCollection.java  
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jar/com/google/common/collect/TreeMultiset.java  
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jar/com/google/common/collect/ForwardingSortedMap.java  
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jar/com/google/common/collect/Maps.java  
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jar/com/google/common/collect/TreeMultimap.java  
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jar/com/google/common/collect/ForwardingObject.java  
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\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/ForwardingMultiset.java  
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jar/com/google/common/collect/Synchronized.java  
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jar/com/google/common/collect/LexicographicalOrdering.java  
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jar/com/google/common/collect/ReverseNaturalOrdering.java  
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jar/com/google/common/collect/EvictingQueue.java  
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jar/com/google/common/collect/FilteredEntrySetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/DescendingImmutableSortedSet.java

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\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ImmutableEnumMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/DescendingMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/CompactHashSet.java  
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\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/AbstractNavigableMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/FilteredMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/FilteredEntryMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/AllEqualOrdering.java  
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\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/RangeMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/CompactHashMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ForwardingImmutableMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java

\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/AbstractMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/TransformedIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/FilteredSetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ForwardingDeque.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/TreeTraverser.java

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\* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular  
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jar/com/google/common/collect/JdkBackedImmutableMultiset.java

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jar/com/google/common/hash/ImmutableSupplier.java

\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/JdkBackedImmutableSet.java

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

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

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jar/com/google/common/util/concurrent/AtomicLongMap.java

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* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/graph/BaseGraph.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/graph/AbstractBaseGraph.java
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jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
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jar/com/google/common/eventbus/Dispatcher.java  
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 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
 * which contained the following notice:
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 *
 * Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.
 */
```

Found in path(s):  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/MoreExecutors.java  
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\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/SortedMapDifference.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/AbstractSequentialIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/UnmodifiableListIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ForwardingImmutableCollection.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ForwardingSetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/MinMaxPriorityQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ForwardingSortedSetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ForwardingListMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/RowSortedTable.java

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jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/CollectSpliterators.java  
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* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/collect/DiscreteDomain.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/collect/ForwardingTable.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/collect/ComputationException.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/collect/RegularImmutableList.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/collect/ArrayTable.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/collect/AbstractIndexedListAdapter.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/collect/ImmutableSortedMap.java
```

\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/SingletonImmutableTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/SingletonImmutableList.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ImmutableTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ImmutableAsList.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ComparisonChain.java  
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\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/io/CharSequenceReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/reflect/TypeVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/base/VerifyException.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/AbstractTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/base/Utf8.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/FilteredMultimapValues.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/hash/HashingInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java

\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/util/concurrent/Runnables.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/base/Verify.java

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\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/base/PatternCompiler.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/base/CommonMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/base/CommonPattern.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/base/JdkPattern.java

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jar/com/google/common/collect/SortedMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/SortedMultisets.java  
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jar/com/google/common/escape/CharEscaper.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/reflect/TypeToken.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/FuturesGetChecked.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/ImmediateFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/escape/CharEscaperBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/FakeTimeLimiter.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/annotations/VisibleForTesting.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/TimeLimiter.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/Futures.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-



jar/com/google/common/util/concurrent/SimpleTimeLimiter.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/AbstractTransformFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/TimeoutFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/io/AppendableWriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/CaseFormat.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/CollectionFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/AggregateFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/FluentFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/io/PatternFilenameFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java  
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jar/com/google/common/collect/ContiguousSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/Monitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-

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jar/com/google/common/net/package-info.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/base/Equivalence.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/primitives/package-info.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/base/Strings.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/annotations/package-info.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/annotations/Beta.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/collect/SortedLists.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/util/concurrent/Atomics.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/base/Ascii.java
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*/
```

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\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/Queues.java

\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/hash/Hasher.java

\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/cache/CacheStats.java

\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/hash/Crc32cHashFunction.java

\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingExecutorService.java

\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/util/concurrent/AbstractScheduledService.java

\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/cache/CacheBuilderSpec.java

\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/BoundType.java

\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/base/Optional.java

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- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/util/concurrent/Service.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/primitives/UnsignedBytes.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/RegularImmutableTable.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/MapMaker.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/escape/Escapers.java
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- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/util/concurrent/AbstractService.java
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jar/com/google/common/collect/ImmutableMapEntry.java  
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jar/com/google/common/collect/MultimapBuilder.java

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jar/com/google/common/hash/package-info.java

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- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ImmutableRangeMap.java
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- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/reflect/ClassPath.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/xml/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/hash/AbstractByteHasher.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/reflect/Element.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/hash/ChecksumHashFunction.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/CartesianList.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/io/FileWriteMode.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/io/CharSource.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ImmutableRangeSet.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/reflect/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/hash/SipHashFunction.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/io/ByteSink.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/math/PairedStatsAccumulator.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/util/concurrent/RateLimiter.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/math/Stats.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/io/BaseEncoding.java

\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/FilteredKeyMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/hash/LongAddable.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/reflect/Parameter.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/util/concurrent/ServiceManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/escape/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/reflect/Invokable.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/io/ByteSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/hash/LongAddables.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/cache/LongAddables.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/math/LinearTransformation.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/html/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/reflect/TypeCapture.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/math/StatsAccumulator.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/util/concurrent/SmoothRateLimiter.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/math/PairedStats.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/cache/LongAddable.java

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Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/graph/ValueGraphBuilder.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/graph/ImmutableValueGraph.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/graph/ConfigurableMutableNetwork.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/graph/NetworkConnections.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/graph/GraphConstants.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/graph/ConfigurableValueGraph.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/graph/MapRetrievalCache.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/graph/MutableValueGraph.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/graph/UndirectedNetworkConnections.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/Comparators.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/graph/AbstractGraph.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/graph/UndirectedGraphConnections.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/graph/ConfigurableNetwork.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/graph/NetworkBuilder.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-

jar/com/google/common/graph/EndpointPair.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/ForwardingGraph.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/EndpointPairIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/EdgesConnecting.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/MapIteratorCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/ValueGraph.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/DirectedMultiNetworkConnections.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/ConfigurableMutableGraph.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/DirectedNetworkConnections.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/ConfigurableMutableValueGraph.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/MultiEdgesConnecting.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/AbstractNetwork.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/ForwardingNetwork.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/GraphConnections.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/MoreCollectors.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/RangeGwtSerializationDependencies.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/AbstractValueGraph.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/ForwardingValueGraph.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/AbstractGraphBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/GraphBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/CollectCollectors.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/ElementOrder.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/DirectedGraphConnections.java

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 * the License.
 */
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
 *
 * MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
 * hereby disclaims copyright to this source code.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/base/SmallCharMatcher.java
```

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Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/collect/ImmutableSortedAsList.java
```

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\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/reflect/Reflection.java

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/\*\*

\* Returns an array containing all of the elements in the specified collection. This method

\* returns the elements in the order they are returned by the collection's iterator. The returned

\* array is "safe" in that no references to it are maintained by the collection. The caller is

\* thus free to modify the returned array.

\*

\* <p>This method assumes that the collection size doesn't change while the method is running.

\*

\* <p>TODO(kevinb): support concurrently modified collections?

\*

\* @param c the collection for which to return an array of elements

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ObjectArrays.java

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\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/IndexedImmutableSet.java

\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/JdkBackedImmutableMap.java

\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/JdkBackedImmutableBiMap.java

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- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/Collections2.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/CollectPreconditions.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/Table.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/RegularImmutableMap.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ImmutableMap.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/Platform.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ImmutableMultimap.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/EmptyImmutableListMultimap.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/HashBasedTable.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ImmutableMultiset.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ImmutableMapKeySet.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/PeekingIterator.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/Serialization.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ImmutableBiMap.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/Tables.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/StandardTable.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ImmutableCollection.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ImmutableMapValues.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/UnmodifiableIterator.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/StandardRowSortedTable.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-jar/com/google/common/collect/ImmutableSortedSet.java
- \* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-

jar/com/google/common/collect/ImmutableListMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/ImmutableEntry.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/SingletonImmutableBiMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/Range.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/TreeBasedTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java  
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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/primitives/Ints.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/Stopwatch.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/primitives/Doubles.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/net/PercentEscaper.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/SequentialExecutor.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/CharMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/primitives/Booleans.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/thirdparty/publicsuffix/TrieParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/AbstractCheckedFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-

jar/com/google/common/escape/Escaper.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/ListenableFutureTask.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/primitives/Longs.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/Joiner.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/escape/UnicodeEscaper.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/primitives/Shorts.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/io/FileBackedOutputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/net/InetAddresses.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/primitives/Floats.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/internal/Finalizer.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/primitives/Chars.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/Converter.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/FluentIterable.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/primitives/Bytes.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/CheckedFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/io/MultiReader.java

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```
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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 */
```

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```
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jar/com/google/common/collect/Hashing.java
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```
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/graph/ImmutableGraph.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/graph/Graph.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/graph/PredecessorsFunction.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/graph/MutableNetwork.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/graph/Network.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/graph/MutableGraph.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/ws_local/PERMITS_SQL/1029588345_1594743614.76/0/guava-25-0-jre-sources-
```

jar/com/google/common/collect/TopKSelector.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/Graphs.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/ImmutableNetwork.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/graph/SuccessorsFunction.java  
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jar/com/google/common/util/concurrent/AbstractFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/ExecutionList.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/FinalizableWeakReference.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/io/CountingInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/ListenableFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/Throwables.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/eventbus/AsyncEventBus.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/util/concurrent/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/Charsets.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/io/MultiInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/Objects.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-

jar/com/google/common/collect/EnumMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/HashBiMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/FinalizableSoftReference.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/io/ByteStreams.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/FinalizableReference.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/primitives/Primitives.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/eventbus/DeadEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/eventbus/Subscribe.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/io/LittleEndianDataOutputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/Preconditions.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/eventbus/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/io/LineBuffer.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/Function.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/io/Closeables.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/io/CharStreams.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/io/Resources.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/io/LineReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/FinalizableReferenceQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/Suppliers.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/io/CountingOutputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/Interners.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/Functions.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/io/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-

jar/com/google/common/eventbus/AllowConcurrentEvents.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/Defaults.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/AbstractIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/io/Files.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/FinalizablePhantomReference.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/io/Flushables.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/io/LittleEndianDataInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/Predicates.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/Supplier.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/base/Predicate.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/eventbus/EventBus.java  
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jar/com/google/common/collect/SortedIterable.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/SortedIterables.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/RegularImmutableSortedMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/Count.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/ForwardingSortedMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/AbstractRangeSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/RangeSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/ImmutableSortedMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1029588345\_1594743614.76/0/guava-25-0-jre-sources-  
jar/com/google/common/collect/GeneralRange.java

## 1.670 options 0.0.6 0.0.6

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## 1.671 antlr 3.5.2

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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);
 }
 }
}

```



```

 $exception = undef;
}
<endif>
<endif>
<endif>
<if(trace)>$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));<nl>
<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:{ll|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>,); <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)>
$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.

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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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```



```
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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>[] = <it>;}; 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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```

```
#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.delegates:{ g|, <g:delegateName()>}>);}; separator="\n">
 <endif>
 <if(grammar.delegates)>
 // Install the pointers back to lexers that will delegate us to perform certain functions
 // for them.
 //
 <grammar.delegates: { 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|
 <returnType()> <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">

<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="CommonTokenStream*", 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()>
}
>>

// 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> = <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>,);
<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_expectingSet(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->matches(<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>=<end if><if(scope)>m_<scope:delegateName()-><end if><rule.name><(if(args)><args;
separator=", "><end if>);<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()-><end if>m_<rule.name><(if(scope)>m_<scope:delegateName()-><end if>
<if(args)>, <end if><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()>

 <newNVEException()>
 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>
>>

```

## // 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) ::= "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
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/Python/ASTParser.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, ...

\*/

```
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/Python/ASTTreeParser.stg
```

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```
/*
```

```
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```

```
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```

```
http://www.temporal-wave.com
```

```
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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(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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```

```
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```

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

```
*/
```

```
/** 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(IInputStream 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.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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```

```

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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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```

```
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```

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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.preatl() ::= "<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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 *
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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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\*/

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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.delegates:{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.delegates:
 {g|self.<g:delegateName()> = <g:delegateName()>; separator="\n">
 <grammar.directDelegates:
 {g|self.<g:delegateName()> = <g.recognizerName>(<trunc(g.delegates):{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="\n" >
>>

```

```

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>,)
>>

/** 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="\n" >

 <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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```

*/

/** 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):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/CSharp2/ASTParser.stg
```

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```
/*
```

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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-
jar/org/antlr/codegen/templates/Python/ASTDbg.stg

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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>
%>

```

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\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Java/AST.stg

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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 <returnType(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>
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>,); <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+=r */
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
```

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

```
/*
```

```
[The "BSD license"]
```

```
Copyright (c) 2005-2009 Jim Idle, Temporal Wave LLC
```

```
http://www.temporal-wave.com
```

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http://www.linkedin.com/in/jimidle
```

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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>
 PARSE->setDebugListener(PARSE, 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.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(DBG, EXCEPTION);<\n>"

@closureBlock.preloop() ::= "<enterSubRule()>"

@closureBlock.postloop() ::= "<exitSubRule()>"

@closureBlock.predecision() ::= "<enterDecision()>"

@closureBlock.postdecision() ::= "<exitDecision()>"

@altSwitchCase.preal() ::= "<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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\*/

/\*\* 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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```

```

*/

```

```

/** 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\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.delegates:{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.delegates:{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.preatl() ::= "<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>")
```

```
>>
```

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```
* /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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```

```
*
```

```
* Conversion to C#:
```

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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.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(>"

/*
* 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.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/CSharp3/Dbg.stg

```

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

/\*

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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>
<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>",<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>",list_<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>",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 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

```

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

```

/*

```

[The "BSD license"]

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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.delegators:

```

```

 {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.delegator.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(>
>>

```

```

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber> = <maxAlt>
<decls>
<@predecision(>

```

```

<decision>
<@postdecision()>
alt<decisionNumber> match {
 <alts:{a | <altSwitchCase(i,a)>}>
 case _ =>
}
>>

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()>
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 _ =>
 if (cnt<decisionNumber> >= 1) loop<decisionNumber>_quitflag = true
 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>,); <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 \>"
val DFA<dfa.decisionNumber>_acceptS =
 "<dfa.javaCompressedAccept; wrap="+\n \>"
val DFA<dfa.decisionNumber>_specialS =
 "<dfa.javaCompressedSpecial; wrap="+\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.

/*
* [The "BSD license"]
* Copyright (c) 2007-2008 Johannes Luber

```

```

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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.
*/

```

```

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.delegators):{p|,
<p.delegateName(>}>, this);}; separator="\n">
<grammar.delegators:
 {g|this.<g.delegateName(> = <g.delegateName(>);}; separator="\n">
 <last(grammar.delegators):{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.delegators):{p|, <p:delegateName()>}>,
this);}; separator="\n">
 <grammar.delegators:
 {g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">
 <last(grammar.delegators):{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.delegators:{g|, <g.recognizerName> <g.delegateName()>}>)
: this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName()>}>)
{
}
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType> input,
RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>}>)
: base(input, state)
{
<if(grammar.directDelegates)>
<grammar.directDelegates:
{g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{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.delegators)>
<last(grammar.delegators):{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.isRoot)>
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,description) ::= <<
// <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>,); <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) == 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\">}; 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">
}
<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?(<return Type(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-
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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()>

\_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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```

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\*/

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/ToolSTGroupFile.java  
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 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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```

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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>
<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
```

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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() ::= <<
```

```
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

```

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

```

/*

```

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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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```

```
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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>.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 U_INT32
```

```
* 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(ISTREAM)
#define SEEK(n) ISTREAM->seek(ISTREAM, 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 = &(amp;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 PERRORRECOVERY
#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->tstream->_LT(INPUT->tstream, 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.
*/
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//

```

```

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```

```

#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.delegates)>
// Include delegator definition header files
//
<recognizer.grammar.delegates: {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

#ifdef 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.grammarIsRoot)>
 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>
<endif>

 <if(trace)>ANTLR3_PRINTF("exit <ruleName> %d failed=%s backtracking=%s\n", LT(1), failed,
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)
*/
{
 <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>
%>

```

```

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()>
}
>>

// 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> = (<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>,);
<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 function */
<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  
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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.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

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```
/*
```

```
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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 !>
```

```
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})>
>>

```

```

// Rewrite

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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\*/

/\*\* 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
```

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```

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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.hasReturnValue)>return
<endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attributes:
{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>,); <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>
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+=r */
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:IntStream):int {
 <if(LEXER)>
 var input:IntStream = _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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```

```
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```

```
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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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```

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

```

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 *
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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()>
<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>
<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.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.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/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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\*/

/\*\* 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-
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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 bytcodes  
\* 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

```

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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.ruleRefRuleRootTrack(...)>
>>

/** ^(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

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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 rewriteing 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.delegates: {g}; const A<g.delegateName():
IBaseRecognizer{<g.recognizerName>}>); overload;
 constructor Create(const AInput: ICharStream; const AState: IRecognizerSharedState<grammar.delegates: {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> :=
TDFFA<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.delegates:{g}; const A<g.delegateName():
IBaseRecognizer{<g.recognizerName>}>); overload;
 constructor Create(const AInput: <inputStreamType>; const AState:
IRecognizerSharedState<grammar.delegates:{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):{g|gParent := 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;
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>,); <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

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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

```

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

```

/*

```

```

[The "BSD license"]

```

```

Copyright (c) 2006, 2007 Kay Roepke 2010 Alan Condit

```

```

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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,
 PARSE,
 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,
 PARSE,
 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:{||ParserRuleReturnScope *<it.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)><en
dif>
{
//<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:]; <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.
 */
cyclicDFASState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
/* cyclicDFASState */
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>
<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
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 */

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Found in path(s):

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* /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/DFAState.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/ErrorManager.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/NFAToDFAConverter.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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*/
/** 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>)

```

>>

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\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/CSharp3/ST.stg

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\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/CSharp3Target.java

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\*/

/\*\* 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="\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) ::= ""

```

```
// ELEMENTS
```

```
/** 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>,)
>>
```

```
/** 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="\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="\nel">
<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>
<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.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><(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.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/CSharp2/ASTTreeParser.stg
No license file was found, but licenses were detected in source scan.

/*

```

```

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*
* Conversion to C#:
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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.
*/

```

```

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.delegators): {p|,
<p.delegateName()>}>, this);}; separator="\n">
<grammar.delegators:
{g|this.<g.delegateName()> = <g.delegateName()>;}; separator="\n">
```

```

<last(grammar.delegators):{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.delegators):{p|, <p:delegateName()>>>,
this);}; separator="\n">
 <grammar.delegators:
 {g|this.<g:delegateName()> = <g:delegateName()>;; separator="\n">
 <last(grammar.delegators):{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.delegators:{ g|, <g.recognizerName> <g.delegateName()>}>)
: this(input, new RecognizerSharedState()<grammar.delegators:{ g|, <g.delegateName()>}>)
{
}
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType> input,
RecognizerSharedState state<grammar.delegators:{ g|, <g.recognizerName> <g.delegateName()>}>)
: base(input, state)
{
<if(grammar.directDelegates)>
<grammar.directDelegates:
{ g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{ 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.delegators)>
<last(grammar.delegators):{ 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", 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)><csharp VisibilityMap.(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>
<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;
<(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>!>);
<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>, false!<decision.dfa.hasSynPred!>);
<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,...)>
>>

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>,); <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, TokenType.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, 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()>.<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;"

/** 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\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
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/CSharp3/CSharp3.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/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.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-
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;
>>

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
/* ASTTreeParser ruleDeclarations */
<super.ruleDeclarations()>
<ASTLabelType> *_first_0 = nil;

```

```

<ASTLabelType> *_last = nil;<\n>
>>

/** What to emit when there is no rewrite rule. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
/* ASTTreeParser noRewrite */
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType> *)_first_0;
if ([treeAdaptor getParent:retval.tree] != nil && [treeAdaptor isNil:[treeAdaptor getParent:retval.tree]]))
 retval.tree = (<ASTLabelType> *)[treeAdaptor 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) ::= <<
/* ASTTreeParser tree */
_last = (<ASTLabelType> *)[input LT:1];
{
<ASTLabelType> *_save_last_<treeLevel> = _last;
<ASTLabelType> *_first_<treeLevel> = nil;
<if(!rewriteMode)>
<ASTLabelType> *root_<treeLevel> = [[[treeAdaptor class] newEmptyTree] retain];
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
<if(root.el.rule)>
if (_first_<enclosingTreeLevel>==nil) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if (_first_<enclosingTreeLevel>==nil) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ([input LA:1] == TokenTypeDOWN) {
 [self match:input TokenType:TokenTypeDOWN Follow:nil]; <checkRuleBacktrackFailure()>
 <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.ruleRefRuleRootTrack(...)>
>>

/** ^(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

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```

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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 contains 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
```

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```

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```
*/
```

```
/*
```

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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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\* /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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\*/

```
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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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"

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-

jar/org/antlr/tool/templates/messages/formats/antlr.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 = 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.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,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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```
*/
```

```
/** 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

# 1.672 stringstream 0.0.5 0.0.5

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## 1.673 component-emitter 1.1.2 1.1.2

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## 1.674 jackson 2.8.11

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## 1.677 object-assign 4.1.0 4.1.0

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## 1.678 byte-buddy 1.9.3

## 1.679 babel-helper-get-function-arity 6.24.1

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# 1.681 isemail 1.2.0 1.2.0

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## 1.682 jackson-annotations 2.10.0.pr3

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## 1.685 jetty-continuation 9.3.27.v20190418

## 1.686 ultron 1.0.2 1.0.2

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## 1.695 kafka-dropwizard-reporter 1.1.1

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# 1.702 httpcomponents-client 4.5.9

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/*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1006669954_1651085002.51/0/jsr305-3-0-2-sources-
jar/javax/annotation/concurrent/Immutable.java
* /opt/cola/permits/1006669954_1651085002.51/0/jsr305-3-0-2-sources-
jar/javax/annotation/concurrent/ThreadSafe.java
* /opt/cola/permits/1006669954_1651085002.51/0/jsr305-3-0-2-sources-
jar/javax/annotation/concurrent/GuardedBy.java
* /opt/cola/permits/1006669954_1651085002.51/0/jsr305-3-0-2-sources-
```

# 1.704 engine.io 1.8.5 1.8.5

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## 1.706 jopt-simple 5.0.2

## 1.707 slf4j 1.7.19

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 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-

jar/org/slf4j/helpers/NOPMDCAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/helpers/MessageFormatter.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/spi/LoggerFactoryBinder.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/helpers/SubstituteLogger.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/ILoggerFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-jar/org/slf4j/MDC.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/helpers/FormattingTuple.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/MarkerFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-jar/org/slf4j/Logger.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/LoggerFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/helpers/BasicMarkerFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/helpers/BasicMarker.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/spi/MDCAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/spi/MarkerFactoryBinder.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/spi/LocationAwareLogger.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/helpers/BasicMDCAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/impl/StaticMDCBinder.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/helpers/MarkerIgnoringBase.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/helpers/SubstituteLoggerFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/impl/StaticMarkerBinder.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/IMarkerFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/helpers/NOPLogger.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-jar/org/slf4j/Marker.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/helpers/Util.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/helpers/NamedLoggerBase.java  
\* /opt/ws\_local/PERMITS\_SQL/1047986051\_1594749721.53/0/slf4j-api-1-7-19-sources-  
jar/org/slf4j/helpers/NOPLoggerFactory.java

# 1.708 jboss-logging 3.1.1

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## 1.709 aspect-j 1.8.13

## 1.710 google-api-client 1.22.0

## 1.711 groovy-json 2.4.6



# 1.712 setprototypeof 1.0.2 1.0.2

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# 1.714 failureaccess 1.0.1

# 1.715 influx 5.0.7 5.0.7

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# 1.717 condicio 2.0.0 2.0.0

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flink-java

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Manifest-Version: 1.0  
Bnd-LastModified: 1433634398680  
Build-Jdk: 1.7.0\_72  
Built-By: tony  
Bundle-Description: Sonatype helps open source projects to set up Maven repositories on <https://oss.sonatype.org/>  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: swagger-models  
Bundle-SymbolicName: io.swagger.models  
Bundle-Version: 1.5.0  
Created-By: Apache Maven Bundle Plugin  
Export-Package: io.swagger.models.parameters;uses:="com.fasterxml.jackson.annotation,io.swagger.models,io.swagger.models.properties";version="1.5.0",io.swagger.models.properties;uses:="com.fasterxml.jackson.annotation,io.swagger.models";version="1.5.0",io.swagger.models;uses:="com.fasterxml.jackson.annotation,io.swagger.models.parameters,io.swagger.models.properties,javax.xml.bind.annotation";version="1.5.0"  
implementation-version: 1.5.0  
Import-Package: com.fasterxml.jackson.annotation;version="[2.4,3)",javax.xml.bind.annotation,org.slf4j;version="[1.6,2)"  
mode: development  
package: io.swagger  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.3.0.201405100607  
url: <https://github.com/swagger-api/swagger-core/modules/swagger-models>

Found in path(s):

\* /opt/cola/permits/1001159702\_1607016290.96/0/swagger-models-1-5-0-jar/META-INF/MANIFEST.MF

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## 1.722 finalhandler 0.4.1 0.4.1

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## 1.723 javax-el-api 2.2.4

## 1.724 number-is-nan 1.0.1 1.0.1

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 */
```

```
package org.apache.ivy.core.module.descriptor;
```

```
public class License {
 private String name;

 private String url;

 public License(String name, String url) {
 this.name = name;
 this.url = url;
 }
}
```

```
public String getName() {
 return name;
}

public String getUrl() {
 return url;
}

}
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## 1.730 socket.io-parser 2.3.1 2.3.1

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# 1.736 babel-polyfill 6.26.0 6.26.0

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# 1.737 tsenart-tb

## 19f4c3d79d2bd67d0911b2e310b999eeea4454

### c1

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```
Token Bucket (tb) [![Build Status](https://secure.travis-ci.org/tsenart/tb.png)](http://travis-ci.org/tsenart/tb)
[![GoDoc](https://godoc.org/github.com/tsenart/tb?status.png)](https://godoc.org/github.com/tsenart/tb)
```

This package provides a generic lock-free implementation of the "Token bucket" algorithm where handling of non-conformity is left to the user.

> The token bucket is an algorithm used in packet switched computer networks and telecommunications networks. It can be used to check that data transmissions, in the form of packets, conform to defined limits on bandwidth and burstiness (a measure of the unevenness or variations in the traffic flow)

-- <cite>[\[Wikipedia\]\(http://en.wikipedia.org/wiki/Token\\_bucket\)](http://en.wikipedia.org/wiki/Token_bucket)</cite>

This implementation of the token bucket generalises its applications beyond packet rate conformance. Hence, the word *generic*. You can use it to throttle any flow over time as long as it can be expressed as a number (bytes/s, requests/s, messages/s, packets/s, potatoes/s, heartbeats/s, etc...).

The *lock-free* part of the description refers to the lock-free programming techniques (CAS loop) used in the core `Bucket` methods (`Take`` and `Put``). [Here is](<http://preshing.com/20120612/an-introduction-to-lock-free-programming/>) a good overview of lock-free programming you can refer to.

All utility packages such as `[http](http/)` and `[io](io/)` are just wrappers around the core package. This ought to be your one stop shop for all things `**throttling**` in Go so feel free to propose missing common functionality.

## ## Install

```
```shell
$ go get github.com/tsenart/tb
```
```

## ## Usage

Read up the `[docs](https://godoc.org/github.com/tsenart/tb)` and have a look at some `[examples](examples/)`.

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...

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1069426944_1594754315.13/0/tb-
19f4c3d79d2bd67d0911b2e310b999e4454c1-1-zip/tb-
19f4c3d79d2bd67d0911b2e310b999e4454c1/README.md
```

# 1.738 jersey 2.5.1

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## 1.739 babel-template 6.26.0 6.26.0

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## 1.741 jul-to-slf4j 1.7.5

## 1.742 siddhi-query-compiler 5.1.4

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## 1.750 mime 1.3.4 1.3.4

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* /opt/cola/permits/1000716175_1615435581.59/0/gbench-0-4-3-groovy-2-4-sources-
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\* /opt/cola/permits/1000716175\_1615435581.59/0/gbench-0-4-3-groovy-2-4-sources-jar/src/main/groovy/groovyx/gbench/BenchmarkASTTransformation.groovy  
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\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-jar/com/google/api/client/auth/oauth/AbstractOAuthGetToken.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-jar/com/google/api/client/auth/oauth/OAuthCredentialsResponse.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-jar/com/google/api/client/auth/oauth/OAuthGetTemporaryToken.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-jar/com/google/api/client/auth/oauth/OAuthHmacSigner.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-jar/com/google/api/client/auth/oauth/OAuthSigner.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-jar/com/google/api/client/auth/oauth/OAuthCallbackUrl.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-jar/com/google/api/client/auth/oauth/OAuthAuthorizeTemporaryTokenUrl.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-jar/com/google/api/client/auth/oauth/package-info.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-jar/com/google/api/client/auth/oauth/OAuthGetAccessToken.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-jar/com/google/api/client/auth/oauth/OAuthParameters.java

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\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-jar/com/google/api/client/auth/oauth2/TokenRequest.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-

jar/com/google/api/client/auth/oauth2/BrowserClientRequestUrl.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-  
jar/com/google/api/client/auth/oauth2/TokenErrorResponse.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-  
jar/com/google/api/client/auth/oauth2/RefreshTokenRequest.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-  
jar/com/google/api/client/auth/oauth2/AuthorizationCodeTokenRequest.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-  
jar/com/google/api/client/auth/openidconnect/package-info.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-  
jar/com/google/api/client/auth/oauth2/TokenResponseException.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-  
jar/com/google/api/client/auth/oauth2/AuthorizationCodeResponseUrl.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-  
jar/com/google/api/client/auth/oauth2/AuthorizationCodeRequestUrl.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-  
jar/com/google/api/client/auth/oauth2/CredentialStoreRefreshListener.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-  
jar/com/google/api/client/auth/oauth2/BearerToken.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-  
jar/com/google/api/client/auth/oauth2/TokenResponse.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-  
jar/com/google/api/client/auth/oauth2/package-info.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-  
jar/com/google/api/client/auth/oauth2/AuthorizationRequestUrl.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-  
jar/com/google/api/client/auth/oauth2/Credential.java  
\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-  
jar/com/google/api/client/auth/oauth2/ClientParametersAuthentication.java  
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\* /opt/cola/permits/1001161198\_1606872828.04/0/google-oauth-client-1-20-0-sources-

```
jar/com/google/api/client/auth/oauth2/CredentialRefreshListener.java
* /opt/cola/permits/1001161198_1606872828.04/0/google-oauth-client-1-20-0-sources-
jar/com/google/api/client/auth/openidconnect/IdTokenResponse.java
* /opt/cola/permits/1001161198_1606872828.04/0/google-oauth-client-1-20-0-sources-
jar/com/google/api/client/auth/oauth2/CredentialStore.java
* /opt/cola/permits/1001161198_1606872828.04/0/google-oauth-client-1-20-0-sources-
jar/com/google/api/client/auth/oauth2/AuthorizationCodeFlow.java
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```
* /opt/cola/permits/1001161198_1606872828.04/0/google-oauth-client-1-20-0-sources-
jar/com/google/api/client/auth/oauth2>PasswordTokenRequest.java
* /opt/cola/permits/1001161198_1606872828.04/0/google-oauth-client-1-20-0-sources-
jar/com/google/api/client/auth/openidconnect/IdTokenVerifier.java
* /opt/cola/permits/1001161198_1606872828.04/0/google-oauth-client-1-20-0-sources-
jar/com/google/api/client/auth/openidconnect/IdToken.java
* /opt/cola/permits/1001161198_1606872828.04/0/google-oauth-client-1-20-0-sources-
jar/com/google/api/client/auth/oauth2/DataStoreCredentialRefreshListener.java
* /opt/cola/permits/1001161198_1606872828.04/0/google-oauth-client-1-20-0-sources-
jar/com/google/api/client/auth/oauth2/StoredCredential.java
* /opt/cola/permits/1001161198_1606872828.04/0/google-oauth-client-1-20-0-sources-
jar/com/google/api/client/auth/oauth2/ClientCredentialsTokenRequest.java
```

## 1.756 websocket-server 9.3.27.v20190418

## 1.757 ws 1.1.5 1.1.5

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## 1.760 bean-validation-api 1.1.0

## 1.761 babel-preset-stage-3 6.24.1 6.24.1

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## 1.771 babel-plugin-transform-async-to-generator 6.24.1 6.24.1

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## 1.775 setprototypeof 1.0.3 1.0.3

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\* /opt/cola/permits/1145449535\_1616181967.19/0/reflectasm-1-10-1-sources-3-jar/com/esotericsoftware/reflectasm/ConstructorAccess.java

\* /opt/cola/permits/1145449535\_1616181967.19/0/reflectasm-1-10-1-sources-3-jar/com/esotericsoftware/reflectasm/PublicConstructorAccess.java

\* /opt/cola/permits/1145449535\_1616181967.19/0/reflectasm-1-10-1-sources-3-jar/com/esotericsoftware/reflectasm/MethodAccess.java

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\* /opt/cola/permits/1145449535\_1616181967.19/0/reflectasm-1-10-1-sources-3-jar/com/esotericsoftware/reflectasm/AccessClassLoader.java

## 1.777 punycode 1.4.1 1.4.1

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## 1.778 netty-buffer 4.1.32

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## 1.781 babylon 6.18.0 6.18.0

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## 1.782 babel-plugin-transform-exponentiation-operator 6.24.1 6.24.1

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# 1.784 ipaddr.js 1.0.5 1.0.5

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## 1.785 fst 2.52

## 1.786 antlr-runtime 4.7

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 */
```

```
lexer grammar XPathLexer;
```

```
tokens { TOKEN_REF, RULE_REF }
```

```
/*
path : separator? word (separator word)* EOF ;
```

```
separator
```

```
: '/' '!'
```

```
| '/' '!'
```

```
| '/'
```

```
| '/'
```

```
;
```

```
word: TOKEN_REF
```

```
| RULE_REF
```

```
| STRING
```

```
| '*'
```

```
;
```

```
*/
```

```
ANYWHERE : '/' ;
```

```
ROOT : '/' ;
```

WILDCARD : '\*' ;

BANG : '!';

ID : NameStartChar NameChar\*

```
{
String text = getText();
if (Character.isUpperCase(text.charAt(0))) setType(TOKEN_REF);
else setType(RULE_REF);
}
;
```

fragment

NameChar : [A-Za-z0-9\_]

```
| ~[\u0000-\u007F] {Character.isUnicodeIdentifierPart(_input.LA(-1))}?
;
```

fragment

NameStartChar

```
: [A-Za-z]
| ~[\u0000-\u007F] {Character.isUnicodeIdentifierStart(_input.LA(-1))}?
;
```

STRING : '\" .\*? '\" ;

//WS : [ \t\r\n]+ -> skip ;

Found in path(s):

```
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/xpath/XPathLexer.g4
```

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```
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```

```
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```

```
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```

```
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- \* /opt/cola/permits/1252025794\_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/FailedPredicateException.java
- \* /opt/cola/permits/1252025794\_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/ParserRuleContext.java
- \* /opt/cola/permits/1252025794\_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/atn/WildcardTransition.java
- \* /opt/cola/permits/1252025794\_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/ANTLRFileStream.java
- \* /opt/cola/permits/1252025794\_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/atn/BasicState.java
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- \* /opt/cola/permits/1252025794\_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/Token.java
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\* /opt/cola/permits/1252025794\_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathTokenElement.java  
\* /opt/cola/permits/1252025794\_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/RuleContext.java  
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\* /opt/cola/permits/1252025794\_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/UnbufferedTokenStream.java  
\* /opt/cola/permits/1252025794\_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/misc/LogManager.java  
\* /opt/cola/permits/1252025794\_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/misc/Func1.java  
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\* /opt/cola/permits/1252025794\_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathElement.java

## 1.787 jetty-util 9.3.27.v20190418

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Found in path(s):

\* /opt/cola/permits/194345792\_1646171445.2/okhttp-3-9-0-sources-jar/okhttp3/internal/http/RealResponseBody.java  
\* /opt/cola/permits/194345792\_1646171445.2/okhttp-3-9-0-sources-jar/okhttp3/internal/ws/WebSocketWriter.java  
\* /opt/cola/permits/194345792\_1646171445.2/okhttp-3-9-0-sources-jar/okhttp3/internal/Internal.java  
\* /opt/cola/permits/194345792\_1646171445.2/okhttp-3-9-0-sources-jar/okhttp3/Protocol.java  
\* /opt/cola/permits/194345792\_1646171445.2/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/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/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

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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/Cache.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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\* /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/http/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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## 1.793 quartz 2.1.1

# 1.794 grpc-context 1.21.0

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\* /opt/cola/permits/1147649994\_1617226881.88/0/jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/Continuation.java

\* /opt/cola/permits/1147649994\_1617226881.88/0/jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/ContinuationThrowable.java

\* /opt/cola/permits/1147649994\_1617226881.88/0/jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/package-info.java

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```
* /opt/cola/permits/1147649994_1617226881.88/0/jetty-continuation-9-3-27-v20190418-sources-2-
jar/org/eclipse/jetty/continuation/FauxContinuation.java
* /opt/cola/permits/1147649994_1617226881.88/0/jetty-continuation-9-3-27-v20190418-sources-2-
jar/org/eclipse/jetty/continuation/ContinuationListener.java
* /opt/cola/permits/1147649994_1617226881.88/0/jetty-continuation-9-3-27-v20190418-sources-2-
jar/org/eclipse/jetty/continuation/ContinuationSupport.java
```

## 1.797 unpipe 1.0.0 1.0.0

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## 1.798 swagger-jaxrs 1.5.0

## 1.799 chill-java 0.7.6

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\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/PriorityQueueSerializer.java

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\* <p>Encodes and decodes to and from Base64 notation.</p>

\* <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>.</p>

\*

\* <p>Example:</p>

\*

\* <code>String encoded = Base64.encode( myByteArray );</code>

\* <br>

\* <code>byte[] myByteArray = Base64.decode( encoded );</code>

\*

\* <p>The <tt>options</tt> parameter, which appears in a few places, is used to pass several pieces of information to the encoder. In the "higher level" methods such as <code>encodeBytes( bytes, options )</code> the options parameter can be used to indicate such things as first gzipping the bytes before encoding them, not inserting linefeeds, and encoding using the URL-safe and Ordered dialects.</p>

\*

\* <p>Note, according to <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>,</p>

\* Section 2.1, implementations should not add line feeds unless explicitly told

\* to do so. I've got Base64 set to this behavior now, although earlier versions

\* broke lines by default.</p>

\*

\* <p>The constants defined in Base64 can be OR-ed together to combine options, so you

\* might make a call like this:</p>

\*

\* <code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO\_BREAK\_LINES );</code>

\* <p>to compress the data before encoding it and then making the output have newline characters.</p>

\* <p>Also...</p>

\* <code>String encoded = Base64.encodeBytes( crazyString.getBytes() );</code>

\*

\*

\*

\* <p>

\* Change Log:

\* </p>

\* <ul>

\* <li>v2.3.7 - Fixed subtle bug when base 64 input stream contained the value 01111111, which is an invalid base 64 character but should not throw an `ArrayIndexOutOfBoundsException` either. Led to discovery of mishandling (or potential for better handling) of other bad input characters. You should now get an `IOException` if you try decoding something that has bad characters in it.</li>

\* <li>v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded string ended in the last column; the buffer was not properly shrunk and contained an extra (null) byte that made it into the string.</li>

\* <li>v2.3.5 - Fixed bug in { @link #encodeFromFile } where estimated buffer size was wrong for files of size 31, 34, and 37 bytes.</li>

\* <li>v2.3.4 - Fixed bug when working with gzipped streams whereby flushing the `Base64.OutputStream` closed the Base64 encoding (by padding with equals signs) too soon. Also added an option to suppress the automatic decoding of gzipped streams. Also added experimental support for specifying a class loader when using the { @link #decodeToObject(java.lang.String, int, java.lang.ClassLoader) } method.</li>

\* <li>v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java footprint with its `CharEncoders` and so forth. Fixed some javadocs that were inconsistent. Removed imports and specified things like `java.io.IOException` explicitly inline.</li>

\* <li>v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the final encoded data will be so that the code doesn't have to create two output arrays: an oversized initial one and then a final, exact-sized one. Big win when using the { @link #encodeBytesToBytes(byte[]) } family of methods (and not using the `gzip` options which uses a different mechanism with streams and stuff).</li>

\* <li>v2.3.1 - Added { @link #encodeBytesToBytes(byte[], int, int, int) } and some similar helper methods to be more efficient with memory by not returning a `String` but just a byte array.</li>

\* <li>v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments and bug fixes queued up and finally executed. Thanks to everyone who sent me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else. Much bad coding was cleaned up including throwing exceptions where necessary instead of returning null values or something similar. Here are some changes that may affect you:

\* <ul>

\* <li><em>Does not break lines, by default.</em> This is to keep in compliance with <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>.</li>

\* <li><em>Throws exceptions instead of returning null values.</em> Because some operations (especially those that may permit the `GZIP` option) use `IO` streams, there is a possibility of an `java.io.IOException` being thrown. After some discussion and thought, I've changed the behavior of the methods to throw `java.io.IOExceptions` rather than return null if ever there's an error. I think this is more

- \* appropriate, though it will require some changes to your code. Sorry,
- \* it should have been done this way to begin with.</li>
- \* <li><em>Removed all references to System.out, System.err, and the like.</em>
- \* Shame on me. All I can say is sorry they were ever there.</li>
- \* <li><em>Throws NullPointerExceptions and IllegalArgumentExceptions</em> as needed
- \* such as when passed arrays are null or offsets are invalid.</li>
- \* <li>Cleaned up as much javadoc as I could to avoid any javadoc warnings.
- \* This was especially annoying before for people who were thorough in their
- \* own projects and then had gobs of javadoc warnings on this file.</li>
- \* </ul>
- \* <li>v2.2.1 - Fixed bug using URL\_SAFE and ORDERED encodings. Fixed bug
- \* when using very small files (~&lt; 40 bytes).</li>
- \* <li>v2.2 - Added some helper methods for encoding/decoding directly from
- \* one file to the next. Also added a main() method to support command line
- \* encoding/decoding from one file to the next. Also added these Base64 dialects:
- \* <ol>
- \* <li>The default is RFC3548 format.</li>
- \* <li>Calling Base64.setFormat(Base64.BASE64\_FORMAT.URLSAFE\_FORMAT) generates
- \* URL and file name friendly format as described in Section 4 of RFC3548.
- \* <http://www.faqs.org/rfcs/rfc3548.html></li>
- \* <li>Calling Base64.setFormat(Base64.BASE64\_FORMAT.ORDERED\_FORMAT) generates
- \* URL and file name friendly format that preserves lexical ordering as described
- \* in <http://www.faqs.org/qa/rfcc-1940.html></li>
- \* </ol>
- \* Special thanks to Jim Kellerman at <a href="http://www.powerset.com/">http://www.powerset.com/</a>
- \* for contributing the new Base64 dialects.
- \* </li>
- \* </li>
- \* <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>  
\*  
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\* 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 2.3.7  
\*/

Found in path(s):

\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/Base64.java  
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\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/ArraysAsListSerializer.java  
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- \* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/ResourcePool.java
- \* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/SerDeState.java
- \* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/IterableRegistrarSerializer.java
- \* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/SqlTimeSerializer.java
- \* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/config/ReflectingInstantiator.java
- \* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/URISerializer.java
- \* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/PackageRegistrar.java
- \* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/KryoInstantiator.java
- \* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/SimpleDateFormatSerializer.java
- \* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/config/Config.java
- \* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/RegexSerializer.java
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- \* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/config/ConfigurationException.java
- \* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/IterableRegistrar.java
- \* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/SqlDateSerializer.java
- \* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/SingleDefaultRegistrar.java
- \* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-

jar/com/twitter/chill/java/TimestampSerializer.java  
\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-  
jar/com/twitter/chill/java/BitSetSerializer.java  
\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-  
jar/com/twitter/chill/java/InetAddressSerializer.java  
\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-  
jar/com/twitter/chill/config/ConfiguredInstantiator.java  
\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-  
jar/com/twitter/chill/SingleRegistrar.java  
\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-  
jar/com/twitter/chill/ReflectingRegistrar.java  
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jar/com/twitter/chill/IKryoRegistrar.java  
\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-  
jar/com/twitter/chill/java/LocaleSerializer.java  
\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-  
jar/com/twitter/chill/ReflectingDefaultRegistrar.java  
\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/KryoPool.java  
\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-  
jar/com/twitter/chill/ClassRegistrar.java  
\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-  
jar/com/twitter/chill/java/UUIDSerializer.java  
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\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/UnmodifiableListSerializer.java

\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/UnmodifiableSetSerializer.java

\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/UnmodifiableJavaCollectionSerializer.java

\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/UnmodifiableSortedMapSerializer.java

\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/UnmodifiableMapSerializer.java

\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/UnmodifiableCollectionSerializer.java

\* /opt/cola/permits/1112810415\_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/UnmodifiableSortedSetSerializer.java

## 1.800 groovy-console 2.4.6



# 1.801 beam 2.15.0 cisco-2

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janino-compiler:

Janino - An embedded Java[™] compiler

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sqlline:

SQLLine - Shell for issuing SQL to relational databases via JDBC

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## A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see

<https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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Janino - An embedded Java[™] compiler

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\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8ChangeStreamIterableImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-

jar/com/mongodb/client/internal/MongoIterableFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/client/internal/Java8ForEachHelper.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/internal/operation/WriteConcernHelper.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/client/ClientSession.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/client/internal/Java8ListDatabasesIterableImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/operation/TransactionOperation.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/TransactionOptions.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/client/internal/Java8ListCollectionsIterableImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/client/internal/Java8DistinctIterableImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/client/internal/ClientSessionClock.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/lang/Nullable.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/client/internal/Java8MongoIterableFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/operation/OperationReadConcernHelper.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/client/internal/Java8MapReduceIterableImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/internal/connection/ReadConcernHelper.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/client/internal/Java8AggregateIterableImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/internal/connection/ReadConcernAwareNoOpSessionContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/operation/CommitTransactionOperation.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/lang/package-info.java  
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jar/com/mongodb/operation/AbortTransactionOperation.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
jar/com/mongodb/client/internal/MongoIterables.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-  
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- \* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/org/bson/codecs/pojo/PropertyMetadata.java
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- \* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/MongoSocketException.java
- \* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/ServerAddress.java
- \* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/org/bson/codecs/pojo/annotations/BsonCreator.java
- \* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/operation/BatchCursor.java
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\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/MongoWriteConcernException.java

\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/InsertRequest.java

\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/WriteConcernException.java

\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/org/bson/json/JsonInt32Converter.java

\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/internal/connection/ServerMonitor.java

\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/DBEncoderFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/internal/connection/CommandResultBaseCallback.java

\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/internal/connection/ServerAddressHelper.java

\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/MongoQueryException.java

\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/selector/WritableServerSelector.java

\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/org/bson/codecs/pojo/ConventionSetPrivateFieldImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/selector/LatencyMinimizingServerSelector.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/event/CommandStartedEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/org/bson/codecs/BsonJavaScriptCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/MongoGridFSException.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/client/model/RenameCollectionOptions.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/org/bson/BsonDocument.java  
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\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/org/bson/codecs/BsonDoubleCodec.java  
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\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/client/MongoCollection.java  
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\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/BasicDBList.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/internal/connection/BsonWriterDecorator.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/client/model/changestream/UpdateDescription.java  
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\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/client/ListDatabasesIterable.java

\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/operation/MapReduceWithInlineResultsOperation.java

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\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/DBEncoder.java

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\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/internal/connection/ByteBufBsonDocument.java

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\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/client/DistinctIterable.java  
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\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/internal/connection/ConnectionFactory.java  
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\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/org/bson/util/AbstractCopyOnWriteMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/org/bson/assertions/Assertions.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/org/bson/util/CopyOnWriteMap.java  
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jar/org/bson/codecs/pojo/IdPropertyModelHolder.java
* /opt/ws_local/PERMITS_SQL/1065171190_1593486559.87/0/mongo-java-driver-3-12-4-sources-
jar/org/bson/codecs/pojo/IdGenerator.java
* /opt/ws_local/PERMITS_SQL/1065171190_1593486559.87/0/mongo-java-driver-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1065171190_1593486559.87/0/mongo-java-driver-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1065171190_1593486559.87/0/mongo-java-driver-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1065171190_1593486559.87/0/mongo-java-driver-3-12-4-sources-
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jar/org/bson/codecs/jsr310/InstantCodec.java
* /opt/ws_local/PERMITS_SQL/1065171190_1593486559.87/0/mongo-java-driver-3-12-4-sources-
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jar/org/bson/codecs/jsr310/Js310CodecProvider.java
* /opt/ws_local/PERMITS_SQL/1065171190_1593486559.87/0/mongo-java-driver-3-12-4-sources-
jar/org/bson/codecs/jsr310/LocalDateTimeCodec.java
* /opt/ws_local/PERMITS_SQL/1065171190_1593486559.87/0/mongo-java-driver-3-12-4-sources-
jar/org/bson/codecs/jsr310/LocalDateCodec.java
* /opt/ws_local/PERMITS_SQL/1065171190_1593486559.87/0/mongo-java-driver-3-12-4-sources-
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*/
/**
* Returns an array containing all of the elements in this deque, in
* proper sequence (from first to last element).
*
* <p>The returned array will be "safe" in that no references to it are
* maintained by this deque. (In other words, this method must allocate
* a new array). The caller is thus free to modify the returned array.
*
* <p>This method acts as bridge between array-based and collection-based
* APIs.
*
* @return an array containing all of the elements in this deque
*/
```

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* /opt/ws_local/PERMITS_SQL/1065171190_1593486559.87/0/mongo-java-driver-3-12-4-sources-
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 * https://github.com/marianobarrios/tls-channel
 */
```

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jar/com/mongodb/internal/connection/tlschannel/TlsChannelBuilder.java
* /opt/ws_local/PERMITS_SQL/1065171190_1593486559.87/0/mongo-java-driver-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannelGroup.java
* /opt/ws_local/PERMITS_SQL/1065171190_1593486559.87/0/mongo-java-driver-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1065171190_1593486559.87/0/mongo-java-driver-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1065171190_1593486559.87/0/mongo-java-driver-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1065171190_1593486559.87/0/mongo-java-driver-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1065171190_1593486559.87/0/mongo-java-driver-3-12-4-sources-
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\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/ClientTlsChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsReadException.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsWriteException.java  
\* /opt/ws\_local/PERMITS\_SQL/1065171190\_1593486559.87/0/mongo-java-driver-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsTaskException.java

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```

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

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1065171190_1593486559.87/0/mongo-java-driver-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/TlsChannel.java

```

# 1.807 ws 3.3.3 3.3.3

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jar/com/google/api/client/auth/oauth/OAuthGetAccessToken.java
* /opt/cola/permits/1001160401_1646171612.07/0/google-oauth-client-1-22-0-sources-
jar/com/google/api/client/auth/oauth/OAuthParameters.java
* /opt/cola/permits/1001160401_1646171612.07/0/google-oauth-client-1-22-0-sources-
jar/com/google/api/client/auth/oauth/OAuthGetTemporaryToken.java
* /opt/cola/permits/1001160401_1646171612.07/0/google-oauth-client-1-22-0-sources-
jar/com/google/api/client/auth/oauth/OAuthHmacSigner.java
* /opt/cola/permits/1001160401_1646171612.07/0/google-oauth-client-1-22-0-sources-
jar/com/google/api/client/auth/oauth/OAuthCallbackUrl.java
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## 1.824 json-smart 1.3.1

## 1.825 kafka-node 1.6.2 1.6.2

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# 1.844 elasticsearch-x-content 7.0.0

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## 1.845 socket.io-client 2.0.4 2.0.4

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\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/internal/TerminalLineSettings.java

\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-

jar/jline/console/completer/AggregateCompleter.java

\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-

jar/jline/console/completer/EnumCompleter.java  
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jar/javax/ws/rs/core/Link.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/client/Entity.java

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jar/javax/ws/rs/core/NoContentException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/Priorities.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/client/ResponseProcessingException.java

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jar/javax/ws/rs/container/ResourceInfo.java  
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jar/javax/ws/rs/ext/InterceptorContext.java  
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\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/Feature.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/ext/ReaderInterceptor.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
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\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/container/DynamicFeature.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/MultivaluedHashMap.java

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\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ProcessingException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/WebTarget.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/ClientBuilder.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/SyncInvoker.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/ReaderInterceptorContext.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/Invocation.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/InvocationCallback.java

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\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/FactoryFinder.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Request.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/GET.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/MatrixParam.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/OPTIONS.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/UriInfo.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/RuntimeDelegate.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/CookieParam.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/MessageBodyReader.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/HEAD.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/NewCookie.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/UriBuilder.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/POST.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/DefaultValue.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ApplicationPath.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/DELETE.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/package-info.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Application.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/QueryParam.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/PathParam.java



\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/PUT.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Cookie.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Variant.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/Consumes.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/FactoryFinder.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/HttpHeaders.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/FormParam.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/EntityTag.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/Produces.java

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*/
/**
 * Convert the supplied value to a String.
 * <p>
 * This method is reserved for future use. Proprietary JAX-RS extensions may leverage the method.
 * Users should be aware that any such support for the method comes at the expense of producing
 * non-portable code.
 * </p>
 *
 * @param value the value of type { @code T }.
 * @return a String representation of the value.
 *
 * @throws IllegalArgumentException if the supplied object cannot be
 * serialized or is { @code null }.
 */

```

Found in path(s):

```

* /opt/cola/permits/1000741842_1654022862.0826519/0/javafx-ws-rs-api-2-0-1-sources-
jar/javafx/ws/rs/ext/ParamConverter.java

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- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/MultivaluedMap.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/GenericType.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/Path.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/PathSegment.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/Provider.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/MessageBodyWriter.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/package-info.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/HeaderParam.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/StreamingOutput.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/ExceptionMapper.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/UriBuilderException.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/Encoded.java

```
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/ext/Providers.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/ext/ContextResolver.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/core/Context.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/core/package-info.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/core/SecurityContext.java
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jar/javax/ws/rs/WebApplicationException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/Response.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/CacheControl.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/MediaType.java

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\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/container/Suspended.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/FeatureContext.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/ConstrainedTo.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/RuntimeType.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/container/ConnectionCallback.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/container/TimeoutHandler.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/container/ResourceContext.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/container/CompletionCallback.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/container/package-info.java  
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- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ClientErrorException.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/NotAcceptableException.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/RedirectionException.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/BadRequestException.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Configuration.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ServiceUnavailableException.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/ClientResponseFilter.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/container/ContainerResponseFilter.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/container/ContainerRequestContext.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/AbstractMultivaluedMap.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/container/ContainerRequestFilter.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-

jar/javax/ws/rs/container/PreMatching.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/client/ClientRequestFilter.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/NotAuthorizedException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/NotAllowedException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/container/AsyncResponse.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/client/ClientResponseContext.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/ForbiddenException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/NotSupportedException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/ServerErrorException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/client/ClientRequestContext.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/NotFoundException.java  
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Found in path(s):

```
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/ext/ParamConverterProvider.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/container/ContainerResponseContext.java
```

## 1.864 metrics-health-checks 3.1.0

## 1.865 scala 2.11.12

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

```
 Either create a single parameter accepting the Tuple2,
 or consider a pattern matching anonymous function: ` { case (a, b) => ... }
val x: ((Int, Int) => Int) = (((a, b)) => a)
 ^
```

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

```
 Either create a single parameter accepting the Tuple2,
 or consider a pattern matching anonymous function: ` { case (param1, param2) => ... }
val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)
 ^
```

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

```
 Either create a single parameter accepting the Tuple3,
 or consider a pattern matching anonymous function: ` { case (param1, ..., param3) => ... }
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
 ^
```

three errors found

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## 1.867 gson 2.7

## 1.868 httpcomponents-client 4.2.5

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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/GsonBuilder.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonPrimitive.java
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jar/com/google/gson/DefaultDateTypeAdapter.java
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jar/com/google/gson/FieldNamingPolicy.java
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jar/com/google/gson/JsonDeserializationContext.java
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jar/com/google/gson/internal/ObjectConstructor.java
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jar/com/google/gson/FieldNamingStrategy.java
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jar/com/google/gson/annotations/Expose.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/JsonParseException.java
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jar/com/google/gson/JsonSerializationContext.java  
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\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/annotations/SerializedName.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonIOException.java  
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## 1.874 jersey-media-multipart 2.5.1

## 1.875 boom 2.10.1 2.10.1

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Found in path(s):

- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/ObjectDecor.java
- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/SecretDecor.java
- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/Logger.java
- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/VerboseThreads.java
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- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/DecorsManager.java

# 1.877 ncp 2.0.0 2.0.0

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## 1.882 sprintf-js 1.1.1 1.1.1

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