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**In your requests please include the following reference number 78EE117C99-1952487029**

## Contents

### **1.1 antlr 2.7.7**

1.1.1 Available under license

### **1.2 javax-inject 1**

1.2.1 Available under license

### **1.3 junit 4.10**

1.3.1 Available under license

### **1.4 junit 4.11**

1.4.1 Available under license

### **1.5 guava 25.0-jre**

1.5.1 Available under license

### **1.6 minlog 1.2**

1.6.1 Available under license

### **1.7 config 1.2.0**

1.7.1 Available under license

### **1.8 javax-json 1.0.4**

1.8.1 Available under license

### **1.9 jbcrypt 0.4**

1.9.1 Available under license

### **1.10 commons-collections 3.2.2**

1.10.1 Available under license

### **1.11 commons-csv 1.4**

1.11.1 Available under license

### **1.12 antlr 3.5.2**

1.12.1 Available under license

### **1.13 javatuples 1.2**

1.13.1 Available under license

- 1.14 jcabi-log 0.14**
  - 1.14.1 Available under license
- 1.15 jcabi-manifests 1.1**
  - 1.15.1 Available under license
- 1.16 commons-math 3.6.1**
  - 1.16.1 Available under license
- 1.17 antlr 4.7**
  - 1.17.1 Available under license
- 1.18 json-simple 1.1.1**
  - 1.18.1 Available under license
- 1.19 copy-concurrently 1.0.5**
  - 1.19.1 Available under license
- 1.20 move-concurrently 1.0.1**
  - 1.20.1 Available under license
- 1.21 run-queue 1.0.3**
  - 1.21.1 Available under license
- 1.22 hdrhistogram 2.1.9**
  - 1.22.1 Available under license
- 1.23 aspect-j 1.8.13**
  - 1.23.1 Available under license
- 1.24 aspectj-tools 1.8.13**
  - 1.24.1 Available under license
- 1.25 httpasyncclient 4.1.4**
  - 1.25.1 Available under license
- 1.26 abego-treelayout-core 1.0.3**
  - 1.26.1 Available under license
- 1.27 failureaccess 1.0.1**
- 1.28 latencyutils 2.0.3**
- 1.29 jcl-over-slf4j 1.7.25**
  - 1.29.1 Available under license
- 1.30 commons-collections 4.1**
  - 1.30.1 Available under license
- 1.31 okhttp 3.12.1**
- 1.32 jul-to-slf4j 1.7.26**
- 1.33 config 1.3.3**
- 1.34 profiler 1.0.2**
- 1.35 jetty 9.4.18.v20190429**
  - 1.35.1 Available under license
- 1.36 commons-pool 2.6.2**

- 1.37 antlr 4.7.2**
- 1.38 bzip2 1.0.8**
- 1.39 j2objc-annotations 1.3**
  - 1.39.1 Available under license
- 1.40 commons-beanutils 1.9.4**
  - 1.40.1 Available under license
- 1.41 httpcomponents-client 4.5.9**
  - 1.41.1 Available under license
- 1.42 zkclient 0.10**
- 1.43 objenesis 2.5.1**
  - 1.43.1 Available under license
- 1.44 reflectasm 1.09**
- 1.45 fonts-dejavu 2.37-1**
  - 1.45.1 Available under license
- 1.46 google-http-client 1.20.0**
- 1.47 stax-api 1.0.1**
  - 1.47.1 Available under license
- 1.48 cglib 3.2.0**
  - 1.48.1 Available under license
- 1.49 commons-digester 2.1**
  - 1.49.1 Available under license
- 1.50 jopt-simple 5.0.2**
- 1.51 javax-json-api 1.0**
- 1.52 jna 4.2.1**
  - 1.52.1 Available under license
- 1.53 guice 4.0**
  - 1.53.1 Available under license
- 1.54 jline 2.14.6**
- 1.55 annotations 12.0**
- 1.56 cglib 3.2.6**
  - 1.56.1 Available under license
- 1.57 unboundid-ldap-sdk 4.0.8**
  - 1.57.1 Available under license
- 1.58 guice 4.1.0**
  - 1.58.1 Available under license
- 1.59 cglib 3.2.9**
  - 1.59.1 Available under license
- 1.60 kryo 2.24.0**
- 1.61 guice 4.2.0**



- 1.61.1 Available under license
- 1.62 grpc-context 1.19.0**
- 1.63 metrics-jvm 4.1.0**
- 1.64 cache-api 1.1.0**
- 1.65 opencensus-api 0.21.0**
- 1.66 bean-validation-api 2.0.1.Final**
  - 1.66.1 Available under license
- 1.67 jedis 3.1.0**
- 1.68 ip 1.1.5**
- 1.69 react-redux 5.0.6**
  - 1.69.1 Available under license
- 1.70 uuid 3.4.0**
  - 1.70.1 Available under license
- 1.71 guice 4.2.2**
  - 1.71.1 Available under license
- 1.72 zlib 1.2.11-r3**
  - 1.72.1 Available under license
- 1.73 javax-annotation-api 1.3.1**
  - 1.73.1 Available under license
- 1.74 rootfiles 8.1-22.el8**
  - 1.74.1 Available under license
- 1.75 libutempter 1.1.6-14.el8**
  - 1.75.1 Available under license
- 1.76 xdg-user-dirs 0.17-2ubuntu1**
  - 1.76.1 Available under license
- 1.77 coreutils 8.30-3ubuntu2**
  - 1.77.1 Available under license
- 1.78 libxdmcp 1.1.3-0ubuntu1**
  - 1.78.1 Available under license
- 1.79 libidn 2.2.0-2**
  - 1.79.1 Available under license
- 1.80 libbsd 0.10.0-1**
  - 1.80.1 Available under license
- 1.81 libxau 1.0.9-0ubuntu1**
  - 1.81.1 Available under license
- 1.82 libxext 1.3.4-0ubuntu1**
  - 1.82.1 Available under license
- 1.83 dash 0.5.10.2-6**
  - 1.83.1 Available under license

- 1.84 quartz 2.1.1.wso2v1**
  - 1.84.1 Available under license
- 1.85 scala 2.11.12**
  - 1.85.1 Available under license
- 1.86 jackson 2.10.1**
  - 1.86.1 Available under license
- 1.87 slf4j 1.7.29**
  - 1.87.1 Available under license
- 1.88 chill 0.7.6**
  - 1.88.1 Available under license
- 1.89 antlr 4.7.1**
  - 1.89.1 Available under license
- 1.90 disruptor 3.4.2.wso2v1**
  - 1.90.1 Available under license
- 1.91 libxrender 0.9.10-1**
  - 1.91.1 Available under license
- 1.92 libxtst 1.2.3-1**
  - 1.92.1 Available under license
- 1.93 hamcrest 1.1**
  - 1.93.1 Available under license
- 1.94 readline 8.0**
  - 1.94.1 Available under license
- 1.95 http-signature 1.2.0**
  - 1.95.1 Available under license
- 1.96 bouncycastle-fips 1.0.2**
  - 1.96.1 Available under license
- 1.97 iconv 2.31**
  - 1.97.1 Available under license
- 1.98 snake-yaml 1.26**
  - 1.98.1 Available under license
- 1.99 cobra 1.4.0**
  - 1.99.1 Available under license
- 1.100 libcap-ng 0.7.9-2.1build1**
  - 1.100.1 Available under license
- 1.101 d-conf 0.36.0-1**
  - 1.101.1 Available under license
- 1.102 mawk 1.3.4.20200120-2**
  - 1.102.1 Available under license
- 1.103 findutils 4.7.0-1ubuntu1**

- 1.103.1 Available under license
- 1.104 libxcb 1.14-2**
  - 1.104.1 Available under license
- 1.105 libsemanage-common 3.0-1build2**
  - 1.105.1 Available under license
- 1.106 libpng 1.6.37-2**
  - 1.106.1 Available under license
- 1.107 selinux 3.0-1build2**
  - 1.107.1 Available under license
- 1.108 grep 3.4-1**
  - 1.108.1 Available under license
- 1.109 vixie-cron 3.0pl1-136ubuntu1**
  - 1.109.1 Available under license
- 1.110 jna 5.5.0**
  - 1.110.1 Available under license
- 1.111 java-jwt 3.9.0**
  - 1.111.1 Available under license
- 1.112 mime-pull 1.9.13**
  - 1.112.1 Available under license
- 1.113 commons-compress 1.20**
  - 1.113.1 Available under license
- 1.114 httpcomponents-client 4.5.10**
  - 1.114.1 Available under license
- 1.115 request 2.88.2**
  - 1.115.1 Available under license
- 1.116 zstd 1.4.4-1.el8**
  - 1.116.1 Available under license
- 1.117 commons-lang3 3.8.1**
  - 1.117.1 Available under license
- 1.118 commons-lang3 3.9**
  - 1.118.1 Available under license
- 1.119 commons-configuration 2.7**
  - 1.119.1 Available under license
- 1.120 bluebird 3.7.2**
  - 1.120.1 Available under license
- 1.121 es6-promise 4.2.8**
  - 1.121.1 Available under license
- 1.122 byte-size 5.0.1**
  - 1.122.1 Available under license

- 1.123 xorg 7.7+19ubuntu14**
  - 1.123.1 Available under license
- 1.124 fs-minipass 1.2.7**
  - 1.124.1 Available under license
- 1.125 cmd-shim 3.0.3**
  - 1.125.1 Available under license
- 1.126 minizlib 1.3.3**
  - 1.126.1 Available under license
- 1.127 minipass 2.9.0**
  - 1.127.1 Available under license
- 1.128 ansistyles 0.1.3**
  - 1.128.1 Available under license
- 1.129 npm-init 0.0.0**
  - 1.129.1 Available under license
- 1.130 stax 4.2.1**
  - 1.130.1 Available under license
- 1.131 swagger 2.1.2**
  - 1.131.1 Available under license
- 1.132 adduser 3.118ubuntu2**
  - 1.132.1 Available under license
- 1.133 sensible-utils 0.0.12+nmu1**
  - 1.133.1 Available under license
- 1.134 debianutils 4.9.1**
  - 1.134.1 Available under license
- 1.135 libunistring 0.9.10-2**
  - 1.135.1 Available under license
- 1.136 hostname 3.23**
  - 1.136.1 Available under license
- 1.137 acl 2.2.53-6**
  - 1.137.1 Available under license
- 1.138 sed 4.7-1**
  - 1.138.1 Available under license
- 1.139 libffi 3.3-4**
  - 1.139.1 Available under license
- 1.140 base-passwd 3.5.47**
  - 1.140.1 Available under license
- 1.141 bzip2 1.0.8-2**
  - 1.141.1 Available under license
- 1.142 cracklib 2.9.6-3.2**

- 1.142.1 Available under license
- 1.143 libpwquality 1.4.2-1build1**
  - 1.143.1 Available under license
- 1.144 lodash-union 4.6.0**
  - 1.144.1 Available under license
- 1.145 lodash.uniq 4.5.0**
  - 1.145.1 Available under license
- 1.146 lodash-without 4.4.0**
  - 1.146.1 Available under license
- 1.147 lodash-baseuniq 4.6.0**
  - 1.147.1 Available under license
- 1.148 lodash-createset 4.0.3**
  - 1.148.1 Available under license
- 1.149 lodash.restparam 3.6.1**
  - 1.149.1 Available under license
- 1.150 lodash-baseindexof 3.1.0**
  - 1.150.1 Available under license
- 1.151 lodash.\_bindcallback 3.0.1**
  - 1.151.1 Available under license
- 1.152 lodash-cacheindexof 3.0.2**
  - 1.152.1 Available under license
- 1.153 lodash.\_getnative 3.9.1**
  - 1.153.1 Available under license
- 1.154 lodash-createcache 3.1.2**
  - 1.154.1 Available under license
- 1.155 lodash-root 3.0.1**
  - 1.155.1 Available under license
- 1.156 lodash.clonedep 4.5.0**
  - 1.156.1 Available under license
- 1.157 libxi 1.7.10-0ubuntu1**
  - 1.157.1 Available under license
- 1.158 cdebconf 0.251ubuntu1**
  - 1.158.1 Available under license
- 1.159 netty 4.1.49.Final**
  - 1.159.1 Available under license
- 1.160 netty 4.1.32.Final**
  - 1.160.1 Available under license
- 1.161 tre 0.8.0**
  - 1.161.1 Available under license

- 1.162 bson 4.0.5**
  - 1.162.1 Available under license
- 1.163 t-digest 3.2**
  - 1.163.1 Available under license
- 1.164 grizzled-slf4j 1.3.2**
  - 1.164.1 Available under license
- 1.165 reactive-streams 1.0.2**
  - 1.165.1 Available under license
- 1.166 node-gyp 5.1.1**
  - 1.166.1 Available under license
- 1.167 berkeley-db 5.3.28+dfsg1-0.6ubuntu2**
  - 1.167.1 Available under license
- 1.168 icu4j 61.1**
  - 1.168.1 Available under license
- 1.169 quartz 2.1.1**
  - 1.169.1 Available under license
- 1.170 lz4 1.2.11**
  - 1.170.1 Available under license
- 1.171 commons-io 2.8.0**
  - 1.171.1 Available under license
- 1.172 httpcomponents-client 4.5.13**
  - 1.172.1 Available under license
- 1.173 acl 2.2.53-1.el8**
  - 1.173.1 Available under license
- 1.174 lucene 8.7.0**
  - 1.174.1 Available under license
- 1.175 form-data 2.3.3**
  - 1.175.1 Available under license
- 1.176 global-dirs 0.1.1**
  - 1.176.1 Available under license
- 1.177 err-code 1.1.2**
  - 1.177.1 Available under license
- 1.178 columnify 1.5.4**
  - 1.178.1 Available under license
- 1.179 duplexify 3.6.0**
  - 1.179.1 Available under license
- 1.180 es6-promisify 5.0.0**
  - 1.180.1 Available under license
- 1.181 isarray 1.0.0**

- 1.181.1 Available under license
- 1.182 pump 2.0.1**
  - 1.182.1 Available under license
- 1.183 editor 1.0.0**
  - 1.183.1 Available under license
- 1.184 detect-newline 2.1.0**
  - 1.184.1 Available under license
- 1.185 get-stream 4.1.0**
  - 1.185.1 Available under license
- 1.186 concat-map 0.0.1**
  - 1.186.1 Available under license
- 1.187 es-to-primitive 1.2.0**
  - 1.187.1 Available under license
- 1.188 string\_decoder 1.1.1**
  - 1.188.1 Available under license
- 1.189 mississippi 3.0.0**
  - 1.189.1 Available under license
- 1.190 typedarray 0.0.6**
  - 1.190.1 Available under license
- 1.191 debuglog 1.0.1**
  - 1.191.1 Available under license
- 1.192 bcrypt-pbkdf 1.0.2**
  - 1.192.1 Available under license
- 1.193 qrcode-terminal 0.12.0**
  - 1.193.1 Available under license
- 1.194 detect-indent 5.0.0**
  - 1.194.1 Available under license
- 1.195 http-proxy-agent 2.1.0**
  - 1.195.1 Available under license
- 1.196 pumpify 1.5.1**
  - 1.196.1 Available under license
- 1.197 resolve-from 4.0.0**
  - 1.197.1 Available under license
- 1.198 validate-npm-package-license 3.0.4**
  - 1.198.1 Available under license
- 1.199 genfun 5.0.0**
  - 1.199.1 Available under license
- 1.200 has-unicode 2.0.1**
  - 1.200.1 Available under license

### **1.201 promzard 0.3.0**

1.201.1 Available under license

### **1.202 safe-buffer 5.1.2**

1.202.1 Available under license

### **1.203 har-schema 2.0.0**

1.203.1 Available under license

### **1.204 agent-base 4.2.1**

1.204.1 Available under license

### **1.205 unique-filename 1.1.1**

1.205.1 Available under license

### **1.206 rimraf 2.7.1**

1.206.1 Available under license

### **1.207 delegates 1.0.0**

1.207.1 Available under license

### **1.208 path-is-absolute 1.0.1**

1.208.1 Available under license

### **1.209 text-table 0.2.0**

1.209.1 Available under license

### **1.210 strip-ansi 4.0.0**

1.210.1 Available under license

### **1.211 normalize-package-data 2.5.0**

1.211.1 Available under license

### **1.212 byline 5.0.0**

1.212.1 Available under license

### **1.213 retry 0.10.1**

1.213.1 Available under license

### **1.214 wrappy 1.0.2**

1.214.1 Available under license

### **1.215 protoduck 5.0.1**

1.215.1 Available under license

### **1.216 json-schema-traverse 0.4.1**

1.216.1 Available under license

### **1.217 isexe 2.0.0**

1.217.1 Available under license

### **1.218 get-stream 3.0.0**

1.218.1 Available under license

### **1.219 flush-write-stream 1.0.3**

1.219.1 Available under license

### **1.220 humanize-ms 1.2.1**



1.220.1 Available under license

**1.221 iferr 0.1.5**

1.221.1 Available under license

**1.222 cli-columns 3.1.2**

1.222.1 Available under license

**1.223 find-npm-prefix 1.0.2**

1.223.1 Available under license

**1.224 aproba 1.2.0**

1.224.1 Available under license

**1.225 cidr-regex 2.0.10**

1.225.1 Available under license

**1.226 util-deprecate 1.0.2**

1.226.1 Available under license

**1.227 which 1.3.1**

1.227.1 Available under license

**1.228 string\_decoder 1.3.0**

1.228.1 Available under license

**1.229 ecc-jsbn 0.1.2**

1.229.1 Available under license

**1.230 cyclist 0.2.2**

1.230.1 Available under license

**1.231 tunnel-agent 0.6.0**

1.231.1 Available under license

**1.232 concat-stream 1.6.2**

1.232.1 Available under license

**1.233 define-properties 1.1.3**

1.233.1 Available under license

**1.234 caseless 0.12.0**

1.234.1 Available under license

**1.235 fast-json-stable-stringify 2.0.0**

1.235.1 Available under license

**1.236 buffer-from 1.0.0**

1.236.1 Available under license

**1.237 console-control-strings 1.1.0**

1.237.1 Available under license

**1.238 once 1.4.0**

1.238.1 Available under license

**1.239 execa 0.7.0**

1.239.1 Available under license

### **1.240 is-fullwidth-code-point 2.0.0**

1.240.1 Available under license

### **1.241 is-fullwidth-code-point 1.0.0**

1.241.1 Available under license

### **1.242 defaults 1.0.3**

1.242.1 Available under license

### **1.243 pump 3.0.0**

1.243.1 Available under license

### **1.244 imurmurhash 0.1.4**

1.244.1 Available under license

### **1.245 deep-extend 0.6.0**

1.245.1 Available under license

### **1.246 number-is-nan 1.0.1**

1.246.1 Available under license

### **1.247 find-up 3.0.0**

1.247.1 Available under license

### **1.248 json-stringify-safe 5.0.1**

1.248.1 Available under license

### **1.249 cli-boxes 1.0.0**

1.249.1 Available under license

### **1.250 oauth-sign 0.9.0**

1.250.1 Available under license

### **1.251 chalk 2.4.1**

1.251.1 Available under license

### **1.252 dashdash 1.14.1**

1.252.1 Available under license

### **1.253 ci-info 1.6.0**

1.253.1 Available under license

### **1.254 forever-agent 0.6.1**

1.254.1 Available under license

### **1.255 osenv 0.1.5**

1.255.1 Available under license

### **1.256 ansi-align 2.0.0**

1.256.1 Available under license

### **1.257 getpass 0.1.7**

1.257.1 Available under license

### **1.258 isstream 0.1.2**

1.258.1 Available under license

### **1.259 code-point-at 1.1.0**

- 1.259.1 Available under license
- 1.260 fs-vacuum 1.2.10**
  - 1.260.1 Available under license
- 1.261 retry 0.12.0**
  - 1.261.1 Available under license
- 1.262 jsbn 0.1.1**
  - 1.262.1 Available under license
- 1.263 boxen 1.3.0**
  - 1.263.1 Available under license
- 1.264 os-homedir 1.0.2**
  - 1.264.1 Available under license
- 1.265 validate-npm-package-name 3.0.0**
  - 1.265.1 Available under license
- 1.266 debug 3.1.0**
  - 1.266.1 Available under license
- 1.267 ansicolors 0.3.2**
  - 1.267.1 Available under license
- 1.268 set-blocking 2.0.0**
  - 1.268.1 Available under license
- 1.269 read 1.0.7**
  - 1.269.1 Available under license
- 1.270 cross-spawn 5.1.0**
  - 1.270.1 Available under license
- 1.271 decamelize 1.2.0**
  - 1.271.1 Available under license
- 1.272 json-parse-better-errors 1.0.2**
  - 1.272.1 Available under license
- 1.273 wewidth 1.0.1**
  - 1.273.1 Available under license
- 1.274 performance-now 2.1.0**
  - 1.274.1 Available under license
- 1.275 promise-retry 1.1.1**
  - 1.275.1 Available under license
- 1.276 gauge 2.7.4**
  - 1.276.1 Available under license
- 1.277 errno 0.1.7**
  - 1.277.1 Available under license
- 1.278 extsprintf 1.3.0**
  - 1.278.1 Available under license

## **1.279 asap 2.0.6**

1.279.1 Available under license

## **1.280 tiny-relative-date 1.3.0**

1.280.1 Available under license

## **1.281 assert-plus 1.0.0**

1.281.1 Available under license

## **1.282 core-util-is 1.0.2**

1.282.1 Available under license

## **1.283 strip-ansi 3.0.1**

1.283.1 Available under license

## **1.284 string-width 1.0.2**

1.284.1 Available under license

## **1.285 os-tmpdir 1.0.2**

1.285.1 Available under license

## **1.286 iconv-lite 0.4.23**

1.286.1 Available under license

## **1.287 ci-info 2.0.0**

1.287.1 Available under license

## **1.288 abbrev 1.1.1**

1.288.1 Available under license

## **1.289 end-of-stream 1.4.1**

1.289.1 Available under license

## **1.290 verror 1.10.0**

1.290.1 Available under license

## **1.291 are-we-there-yet 1.1.4**

1.291.1 Available under license

## **1.292 json-parse 1.3.1**

1.292.1 Available under license

## **1.293 capture-stack-trace 1.0.0**

1.293.1 Available under license

## **1.294 fs-write-stream-atomic 1.0.10**

1.294.1 Available under license

## **1.295 brace-expansion 1.1.11**

1.295.1 Available under license

## **1.296 color-convert 1.9.1**

1.296.1 Available under license

## **1.297 archy 1.0.0**

1.297.1 Available under license

## **1.298 inflight 1.0.6**

1.298.1 Available under license  
**1.299 ms 2.0.0**  
1.299.1 Available under license  
**1.300 dotenv 5.0.1**  
1.300.1 Available under license  
**1.301 is-typedarray 1.0.0**  
1.301.1 Available under license  
**1.302 create-error-class 3.0.2**  
1.302.1 Available under license  
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The primary ANTLR guy:

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## 1.2 javax-inject 1

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\* As of 2010/06/11, this method is identical to the (package private) hash

\* method in OpenJDK 7's java.util.HashMap class.

\*/

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## 1.7 config 1.2.0



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## 1.8 javax-json 1.0.4

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```
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Found in path(s):

```
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
jar/org/antlr/v4/runtime/atn/ATNDeserializationOptions.java  
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
jar/org/antlr/v4/runtime/atn/LexerPushModeAction.java  
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
jar/org/antlr/v4/runtime/tree/Tree.java  
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
jar/org/antlr/v4/runtime/tree/AbstractParseTreeVisitor.java  
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
```

```

jar/org/antlr/v4/runtime/tree/xpath/XPathLexer.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/misc/Triple.java
*
/opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/pattern/TokenTagToken.java
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jar/org/antlr/v4/runtime/LexerInterpreter.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
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 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/tree/ParseTree.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/CharStream.java  
 \*



/opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/tree/TreeNodeImpl.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/UnbufferedCharStream.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/ParserRuleContext.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/atn/ATNSerializer.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/atn/LexerActionExecutor.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/atn/RuleStopState.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/atn/LexerModeAction.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/atn/StarLoopEntryState.java  
 \*  
 /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/RecognitionException.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/atn/LexerATNSimulator.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/tree/pattern/ParseTreeMatch.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/dfa/DFA.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/atn/PlusBlockStartState.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/BaseErrorListener.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/misc/ObjectEqualityComparator.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/atn/ArrayPredictionContext.java  
 \*  
 /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/misc/TestRig.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/dfa/LexerDFASerializer.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/DiagnosticErrorListener.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/tree/xpath/XPathTokenAnywhereElement.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/atn/StarLoopbackState.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/misc/OrderedHashSet.java  
 \* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-  
 jar/org/antlr/v4/runtime/ANTLRErrorListener.java

\*  
/opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/tree/ParseTreeListener.java  
\* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/ANTLRStrategy.java  
\* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/atn/RuleStartState.java  
\* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/misc/AbstractEqualityComparator.java  
\* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/atn/WildcardTransition.java  
\* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/RuntimeMetaData.java  
\* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/atn/LexerAction.java  
\* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/TokenSource.java  
\*  
/opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/Vocabulary.java  
\* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/tree/pattern/Chunk.java  
\* /opt/cola/permits/169822625\_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/atn/BasicState.java

## 1.18 json-simple 1.1.1

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# 1.19 copy-concurrently 1.0.5

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## 1.22 hdrhistogram 2.1.9

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jar/org/HdrHistogram/DoubleHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/HistogramIterationValue.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/AllValuesIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/DoubleLinearIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Histogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/AbstractHistogram.java
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/opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/ConcurrentHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Version.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Recorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/DoubleRecordedValuesIterator.java
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jar/org/HdrHistogram/LogarithmicIterator.java
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jar/org/HdrHistogram/HistogramLogProcessor.java
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jar/org/HdrHistogram/SingleWriterDoubleRecorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/AbstractHistogramIterator.java
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jar/org/HdrHistogram/DoubleAllValuesIterator.java
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jar/org/HdrHistogram/IntCountsHistogram.java
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jar/org/HdrHistogram/SynchronizedDoubleHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/PercentileIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/SingleWriterRecorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/ConcurrentDoubleHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/SynchronizedHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/DoubleLogarithmicIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/AbstractHistogramLogReader.java
*
/opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/LinearIterator.java

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```
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```
package org.HdrHistogram;
```

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

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```
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## 1.23 aspect-j 1.8.13

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## 1.24 aspectj-tools 1.8.13

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```
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jar/org/apache/commons/logging/impl/SLF4JLogFactory.java
* /opt/cola/permits/197233950_1651094479.22/0/jcl-over-slf4j-1-7-25-sources-
jar/org/apache/commons/logging/Log.java
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jar/org/apache/commons/logging/package.html

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## 1.32 jul-to-slf4j 1.7.26

## 1.33 config 1.3.3

## 1.34 profiler 1.0.2

## 1.35 jetty 9.4.18.v20190429

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## 1.37 antlr 4.7.2

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## 1.50 jopt-simple 5.0.2

## 1.51 javax-json-api 1.0

## 1.52 jna 4.2.1

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## 1.55 annotations 12.0

# 1.56 cglib 3.2.6

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## 1.63 metrics-jvm 4.1.0

## 1.64 cache-api 1.1.0

## 1.65 opencensus-api 0.21.0

## 1.66 bean-validation-api 2.0.1.Final

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## 1.67 jedis 3.1.0

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## 1.70 uuid 3.4.0

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/*
 * UUID.java
 *
 * Created 07.02.2003
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 */
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```

```
/*
 * MACAddressParserTest.java
 *
 * Created 30.01.2006.
 *
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\* Hex.java

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\* Created 04.07.2003.

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## 1.76 xdg-user-dirs 0.17-2ubuntu1

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```
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```
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## 1.77 coreutils 8.30-3ubuntu2

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Files:

include/bsd/err.h

include/bsd/stdlib.h

include/bsd/sys/param.h

include/bsd/unistd.h

src/bsd\_getopt.c

src/err.c

src/fgetln.c

src/progname.c

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include/bsd/sys/bitstring.h  
include/bsd/sys/queue.h  
include/bsd/sys/time.h  
include/bsd/timeconv.h  
include/bsd/vis.h  
man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd  
man/fgetln.3bsd  
man/fgetwln.3bsd  
man/fpurge.3bsd  
man/funopen.3bsd  
man/getbsize.3bsd  
man/heapsort.3bsd  
man/nlist.3bsd  
man/queue.3bsd  
man/radixsort.3bsd  
man/reallocarray.3bsd  
man/reallocf.3bsd  
man/setmode.3bsd  
man/strmode.3bsd  
man/strnstr.3bsd  
man/strtoi.3bsd  
man/strtou.3bsd  
man/unvis.3bsd  
man/vis.3bsd  
man/wcsncpy.3bsd  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c  
src/radixsort.c  
src/setmode.c  
src/strmode.c  
src/strnstr.c  
src/strtoi.c  
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man/fmtcheck.3bsd  
man/humanize\_number.3bsd  
man/stringlist.3bsd  
man/timeval.3bsd  
src/fmtcheck.c  
src/humanize\_number.c  
src/stringlist.c  
src/strtonum.c

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man/byteorder.3bsd  
man/closefrom.3bsd  
man/expand\_number.3bsd  
man/flopen.3bsd  
man/getpeereid.3bsd

man/pidfile.3bsd

src/expand\_number.c

src/hash/sha512.h

src/hash/sha512c.c

src/pidfile.c

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src/timeconv.c

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man/fparseln.3bsd  
src/fparseln.c

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man/readpassphrase.3bsd  
man/strncpy.3bsd  
man/strtonum.3bsd  
src/arc4random.c  
src/arc4random\_linux.h  
src/arc4random\_openbsd.h  
src/arc4random\_uniform.c  
src/arc4random\_unix.h  
src/arc4random\_win.h  
src/closefrom.c



src/getentropy\_aix.c  
src/getentropy\_bsd.c  
src/getentropy\_hpux.c  
src/getentropy\_hurd.c  
src/getentropy\_linux.c  
src/getentropy\_osx.c  
src/getentropy\_solaris.c  
src/getentropy\_win.c  
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src/hash/md5.c

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# 1.85 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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## 1.86 jackson 2.10.1

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## 1.88 chill 0.7.6

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\*

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\* /opt/ws\_local/PERMITS\_SQL/1013582607\_1591898851.09/0/chill-2-10-0-7-6-sources-jar/com/twitter/chill/SomeSerializer.scala

\* /opt/ws\_local/PERMITS\_SQL/1013582607\_1591898851.09/0/chill-2-10-0-7-6-sources-jar/com/twitter/chill/config/ScalaAnyRefMapConfig.scala

\* /opt/ws\_local/PERMITS\_SQL/1013582607\_1591898851.09/0/chill-2-10-0-7-6-sources-jar/com/twitter/chill/KryoBase.scala

\* /opt/ws\_local/PERMITS\_SQL/1013582607\_1591898851.09/0/chill-2-10-0-7-6-sources-jar/com/twitter/chill/config/ScalaMapConfig.scala

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/opt/ws\_local/PERMITS\_SQL/1013582607\_1591898851.09/0/chill-2-10-0-7-6-sources-jar/com/twitter/chill/SortedSetSerializer.scala

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\*

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\* /opt/ws\_local/PERMITS\_SQL/1013582607\_1591898851.09/0/chill-2-10-0-7-6-sources-jar/com/twitter/chill/ScalaKryoInstantiator.scala  
\* /opt/ws\_local/PERMITS\_SQL/1013582607\_1591898851.09/0/chill-2-10-0-7-6-sources-jar/com/twitter/chill/TupleSerializers.scala  
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lexer grammar ActionSplitter;

```

options { filter=true; }

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

@members {
ActionSplitterListener delegate;

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

/** force filtering
    (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
    List<Token> chunks = new ArrayList<Token>();
    Token t = nextToken();
    while ( t.getType()!=Token.EOF ) {
        chunks.add(t);
        t = nextToken();
    }
    return chunks;
}

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

// ignore comments right away

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

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

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

```

```

}
;

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

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

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

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

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

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

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

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

```

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```
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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  {$mos = controller.stringRef($STRING_LITERAL, $label);}
| ^(TOKEN_REF ARG_ACTION .) {$mos =
controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
| ^(TOKEN_REF .)  {$mos = controller.tokenRef($TOKEN_REF, $label, null);}
| TOKEN_REF      {$mos = 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/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/SourceGenTriggers.g

```

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\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/templates/depend.stg  
\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg  
\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/templates/dot/graphs.stg

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\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg

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```
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/parse/ANTLRParser.g
```

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```

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*/
```

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```
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/ErrorType.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/semantics/AttributeChecks.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/ActionText.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/decl/Decl.java
```

```

* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/SerializedATN.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/LabeledOp.java
*
/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/OutputFile.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/LabelElementPair.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/RuleFunction.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/VisitorFile.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_parser.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/gui/TreeViewer.java
*
/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/BaseVisitorFile.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/RuleElement.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/ActionChunk.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/BaseListenerFile.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/SetAttr.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/gui/PostScriptDocument.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/parse/ToolANTLRLexer.java
*
/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/semantics/BasicSemanticChecks.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_ctx.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/target/GoTarget.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-

```

```

jar/org/antlr/v4/codegen/model/decl/ElementListDecl.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/analysis/AnalysisPipeline.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/gui/Trees.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/semantics/UseDefAnalyzer.java
*
/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/ast/RangeAST.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/Parser.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/parse/TokenVocabParser.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/RetValRef.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/ToolMessage.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
*
/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/DOTGenerator.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_text.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/ast/GrammarRootAST.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/automata/ATNFactory.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/target/CSharpTarget.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/QRetValRef.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/TokenRef.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/parse/ScopeParser.java
*
/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/ModelElement.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/automata/ATNVisitor.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/unicode/UnicodeDataTemplateController.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-

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```

jar/org/antlr/v4/codegen/model/RuleSempredFunction.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/GrammarParserInterpreter.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/LL1Choice.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/LL1Loop.java
*
/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/OutputModelFactory.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/OutputModelController.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/OutputModelWalker.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/ast/PlusBlockAST.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/VisitorDispatchMethod.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/LabelType.java
*
/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/Recognizer.java
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/DispatchMethod.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/LeftRecursiveRule.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/StarBlock.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/Tool.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/target/Python2Target.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-

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jar/org/antlr/v4/tool/ast/AltAST.java
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/TestSetInline.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/ANTLRMessage.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/GrammarTransformPipeline.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/automata/LexerATNFactory.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-

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jar/org/antlr/v4/codegen/target/CppTarget.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/Rule.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_text.java

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 jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_index.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/ArgAction.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/chunk/ArgRef.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/tool/ast/TerminalAST.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/analysis/LeftRecursiveRuleAnalyzer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/LL1OptionalBlockSingleAlt.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/misc/EscapeSequenceParsing.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/decl/CodeBlock.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/tool/ast/OptionalBlockAST.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/tool/ast/RuleAST.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/decl/RuleContextDecl.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/Choice.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/codegen/model/InvokeRule.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/parse/v3TreeGrammarException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
 jar/org/antlr/v4/misc/MutableInt.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-

jar/org/antlr/v4/automata/ParserATNFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/UnicodeEscapes.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/Target.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef\_start.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/CodeGeneratorExtension.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/ast/GrammarAST.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/gui/BasicFontMetrics.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/gui/TestRig.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/semantics/SemanticPipeline.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/BuildDependencyGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/MatchNotSet.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/codegen/target/Python3Target.java  
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- \*/

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

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

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

```

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

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

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

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

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

setElement[boolean inLexer]
@after {

```



```

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

```

```

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

```

```

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

```

Found in path(s):  
\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/parse/BlockSetTransformer.g  
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\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg

\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg

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/\*\* Find left-recursive rules \*/

tree grammar LeftRecursiveRuleWalker;

options {

tokenVocab=ANTLRParser;

ASTLabelType=GrammarAST;

}

@header {

package org.antlr.v4.parse;

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

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

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

}

@members {

private String ruleName;

private int currentOuterAltNumber; // which outer alt of rule?

public

int numAlts; // how many alts for this rule total?

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

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

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

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

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

public void setReturnValues(GrammarAST t) {}

}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away

public

rec\_rule returns [boolean isLeftRec]

@init

{

```

currentOuterAltNumber = 1;
}
: ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
  ruleModifier?
// (ARG_ACTION)? shouldn't allow args, right?
  ^(RETURNS a=ARG_ACTION {setReturnValues($a);}))?
// (^(THROWS .+)? don't allow
  (^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
  (^(OPTIONS .*)
  | ^(AT ID ACTION) // TODO: copy
  )*
ruleBlock { $isLeftRec = $ruleBlock.isLeftRec;}
exceptionGroup
)
;

exceptionGroup
: exceptionHandler* finallyClause?
;

exceptionHandler
: ^(CATCH ARG_ACTION ACTION)
;

finallyClause
: ^(FINALLY ACTION)
;

ruleModifier
: PUBLIC
| PRIVATE
| PROTECTED
;

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

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
: (binary)=> binary

```

```

        {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| (prefix)=>    prefix
        {prefixAlt((AltAST)$start, currentOuterAltNumber);}
| (suffix)=>    suffix
        {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| nonLeftRecur {otherAlt((AltAST)$start, currentOuterAltNumber);}
;

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

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

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

nonLeftRecur
: ^(ALT elementOptions? element+)
;

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

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

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

```

elementOptions  
: ^(ELEMENT\_OPTIONS elementOption\*)  
  
;

elementOption  
: ID  
| ^(ASSIGN ID ID)  
| ^(ASSIGN ID STRING\_LITERAL)  
| ^(ASSIGN ID ACTION)  
| ^(ASSIGN ID INT)  
  
;

element  
: atom  
| ^(NOT element)  
| ^(RANGE atom atom)  
| ^(ASSIGN ID element)  
| ^(PLUS\_ASSIGN ID element)  
| ^(SET setElement+)  
| RULE\_REF  
| ebnf  
| epsilonElement  
  
;

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

setElement  
: ^(STRING\_LITERAL elementOptions)  
| ^(TOKEN\_REF elementOptions)  
| STRING\_LITERAL  
| TOKEN\_REF  
  
;

ebnf: block  
| ^( OPTIONAL block )  
| ^( CLOSURE block )  
| ^( POSITIVE\_CLOSURE block )  
  
;

block  
: ^(BLOCK ACTION? alternative+)

;

alternative

: ^(ALT elementOptions? element+)

;

atom

: ^(RULE\_REF ARG\_ACTION? elementOptions?)

| ^(STRING\_LITERAL elementOptions)

| STRING\_LITERAL

| ^(TOKEN\_REF elementOptions)

| TOKEN\_REF

| ^(WILDCARD elementOptions)

| WILDCARD

| ^(DOT ID element)

;

Found in path(s):

\*

/opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g

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tree grammar ATNBuilder;

options {

language = Java;

tokenVocab = ANTLRParser;

ASTLabelType = GrammarAST;

// filter = true;

}



```

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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/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/parse/ATNBuilder.g
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```

* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg

```

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\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg  
\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg  
\* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-  
jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg

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```

// File   : A3Lexer.g
// Author  : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version  : First implemented as part of ANTLR 3.2 this is the self
//           hosting ANTLR 3 Lexer.
//
// Description
// -----
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are
// derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grmmars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'"
//    vs: "You cannot specify two options{ }
//        sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//
/** Read in an ANTLR grammar and build an AST. Try not to do
 * any actions, just build the tree.
 *
 * The phases are:
 *
 * A3Lexer.g (this file)
 *     A3Parser.g
 *     A3Verify.g (derived from A3Walker.g)
 * assign.types.g
 * define.g
 * buildnfa.g
 * antlr.print.g (optional)
 * codegen.g
 *
 * Terence Parr
 * University of San Francisco
 * 2005

```



```
* Jim Idle (this v3 grammar)
* Temporal Wave LLC
* 2009
*/
lexer grammar ANTLRLexer;
```

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

```
// -----
// Options
//
```

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

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

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

```
tokens { SEMPREP; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }
```

```
// Include the copyright
// in this source and also the generated source
//
@lexer::header {
/*
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```

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\*/

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

```
@members {
```

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

```
public CommonTokenStream tokens; // track stream we push to; need for context info
public boolean isLexerRule = false;
```

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

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

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

```
subrule.
```

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

```
*/
```

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

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

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

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

```

    if ( i>=n ) i = n-1; // seems index == n as we lex
while ( i>=0 && i<n) {
    int ttype = tokens.get(i).getType();
    if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
        return tokens.get(i);
    }
    i--;
}
return null;
}
}

// -----
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We also trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init
{

// Record the start line and offsets as if we need to report an
// unterminated comment, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = $line;
int offset = getCharPositionInLine();
}
: // Eat the first character only, then see if we have a comment
// or something silly.
//
/' // Comment introducer

(
// Single line comment, possibly with embedded src/line directives
// in a similar style to the C pre-processor, allowing generated
// code to refer the programmer back to the original source code
// in case of error.
//
/'

```

```

(
  (' $ANTLR')=> ' $ANTLR' SRC
  | ~(NLCHARS)*
)

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

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

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

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

|// There was nothing that made sense following the opening '/' and so
  // we issue an error regarding the malformed comment
  //
  {

```

```

        // TODO: Insert error message relative to comment start
        //
    }
)
{
    // We do not wish to pass the comments in to the parser. If you are
    // writing a formatter then you will want to preserve the comments off
    // channel, but could just skip and save token space if not.
    //
    $channel=COMMENTS_CHANNEL;
}
;

```

ARG\_OR\_CHARSET

```

options {k=1;}
:
{isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
| {!isLexerRule}?=> ARG_ACTION
{
    $type=ARG_ACTION;
    // Set the token text to our gathered string minus outer [ ]
    String t = $text;
    t = t.substring(1,t.length()-1);
    setText(t);
}
;

```

fragment

LEXER\_CHAR\_SET

```

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

```

// -----

// Argument specs

//

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

//

fragment

ARG\_ACTION

```

: '['
  (

```

```

    ARG_ACTION

    | ("")=>ACTION_STRING_LITERAL

    | ("\")=>ACTION_CHAR_LITERAL

    | ~('[\'])
    )*

    '
;

// -----
// Actions
//
// Other than making sure to distinguish between { and } embedded
//
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
: NESTED_ACTION
( '?' {$type = SEMPRED;}
( (WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
{
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    grammarError(ErrorType.V3_GATED_SEMPRED, t);
}
)?
)?
;

// -----
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we
// must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited by ' or " and so consume these

```

```

// in their own alts so as not to inadvertently match { }.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
@init {

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

: // Action and other blocks start with opening {
//
'{'
(
// And now we can match one of a number of embedded
// elements within the action until we find a
// } that balances the opening {. If we do not find
// the balanced } then we will hit EOF and can issue
// an error message about the brace that we believe to
// be mismatched. This won't be
foolproof but we will
// be able to at least report an error against the
// opening brace that we feel is in error and this will
// guide the user to the correction as best we can.
//

// An embedded {} block
//
NESTED_ACTION

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

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

| // What appears to be a literal
//

```

ACTION\_STRING\_LITERAL

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

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

```
)*
```

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

```
|// Looks like have an imbalanced { } block, report  
// with respect to the opening brace.  
//  
{  
// TODO: Report imbalanced { }
```

```
System.out.println("Block starting at line " + startLine + " offset " + (offset+1) + " contains imbalanced { } or is  
missing a }");
```

```
}  
)  
;
```

```
// Keywords
```

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

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

```
OPTIONS : 'options' WSNLCHARS* '{' ;  
TOKENS_SPEC : 'tokens' WSNLCHARS* '{' ;  
CHANNELS : 'channels' WSNLCHARS* '{' ;
```

```
IMPORT : 'import' ;  
FRAGMENT : 'fragment' ;  
LEXER : 'lexer' ;  
PARSER : 'parser' ;
```



```

GRAMMAR    : 'grammar'          ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED   : 'protected'
    ;
PUBLIC      : 'public'          ;
PRIVATE     : 'private'         ;
RETURNS     : 'returns'         ;
LOCALS      : 'locals'          ;
THROWS      : 'throws'          ;
CATCH       : 'catch'           ;
FINALLY     : 'finally'         ;
MODE        : 'mode'            ;

// -----
// Punctuation
//
// Character sequences used as separators, delimiters, operators, etc
//
COLON       : ':'
    {
        // scan backwards, looking for a RULE_REF or TOKEN_REF.
        // which would indicate the start of a rule definition.
        // If we see a LPAREN, then it's the start of the subrule.
        // this.tokens is the token string we are pushing into, so
        // just loop backwards looking for a rule definition. Then
        // we set isLexerRule.
        Token t = getRuleOrSubruleStartToken();
        if ( t!=null ) {
            if ( t.getType()==RULE_REF
) isLexerRule = false;
            else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
            // else must be subrule; don't alter context
        }
    }
    ;
COLONCOLON  : '::'              ;
COMMA       : ','               ;
SEMI        : ';'               ;
LPAREN      : '('               ;
RPAREN      : ')'               ;
RARROW      : '->'             ;
LT          : '<'               ;
GT          : '>'               ;
ASSIGN      : '='               ;
QUESTION    : '?'               ;
SYNPRED     : '=>'
    {
        Token t = new CommonToken(input, state.type, state.channel,

```

```

        state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharPositionInLine(state.tokenStartCharPositionInLine);
grammarError(ErrorType.V3_SYNPRED, t);
    $channel=HIDDEN;
}
;
STAR    : '*'        ;
PLUS    : '+'        ;
PLUS_ASSIGN : '+='    ;
OR      : '|'        ;
DOLLAR  : '$'        ;
DOT     : '.'        ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE   : '..'       ;
AT      : '@'        ;
POUND   : '#'        ;
NOT     : '~'        ;
RBRACE  : '}'        ;

```

/\*\* Allow unicode rule/token names \*/

```

ID : a=NameStartChar NameChar*
{
  if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
  else $type = RULE_REF;
}
;

```

fragment

```

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

```

fragment

```

NameStartChar
: 'A'..'Z' | 'a'..'z'
| '\u00C0'..' \u00D6'
| '\u00D8'..' \u00F6'
| '\u00F8'..' \u02FF'
| '\u0370'..' \u037D'
| '\u037F'..' \u1FFF'
| '\u200C'..' \u200D'
| '\u2070'..' \u218F'
| '\u2C00'..' \u2FEF'

```

```

    | '\u3001'..\uD7FF'
    | '\uF900'..\uFDCF'
    | '\uFDF0'..\uFEFE'
    | '\uFF00'..\uFFFD'
    ; // ignores | [\u10000-\uEFFFF] ;

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

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

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

```

```

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

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

// -----
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx or \u{xxxxxx},
// where x is a valid hexadecimal number.
STRING_LITERAL
: "\"" ( ( ESC_SEQ | ~("\|\"|\r|\n") ) ) *
( "\""
| // Unterminated string literal
{
    Token t = new CommonToken(input, state.type, state.channel,
state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharacterPositionInLine(state.tokenStartCharPositionInLine);
    grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
}
)
;

```

```

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

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

    | // A Java style Unicode escape sequence
    UNICODE_ESC

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

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

fragment
UNICODE_ESC
@init {

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

// We now require 4 hex digits. Note though
// that we accept any number of characters

```

```

// and issue an error if we do not get 4. We cannot
// use an infinite count such as + because this
// might consume too many, so we lay out the lexical
// options and issue an error at the invalid paths.
//
(
  (
    HEX_DIGIT { hCount++; }

    (
      HEX_DIGIT { hCount++; }
      (
        HEX_DIGIT { hCount++; }
        (
          // Four valid hex digits, we are good
          //
          HEX_DIGIT { hCount++; }

          |// Three valid digits
        )

        |// Two valid digits
      )

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

// Now check the digit count and issue an error if we need to
//
{
  if (hCount < 4) {
    Interval badRange = Interval.of(getCharIndex()-2-hCount, getCharIndex());
    String lastChar = input.substring(badRange.b, badRange.b);
    if ( lastChar.codePointAt(0)=="\" ) {
      badRange.b--;
    }
    String bad = input.substring(badRange.a, badRange.b);
    Token t = new CommonToken(input, state.type, state.channel, badRange.a, badRange.b);
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE,
t, bad);
  }
}
;

```

```

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

    HEX_DIGIT+ // One or more hexadecimal digits

    '}' // Leadout for unicode extended escape sequence

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

// -----
//
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
: (
    ' '
    | '\t'
    | '\r'
    | '\n'
    | '\f'
)+
{ $channel=HIDDEN; }
;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS

```

```

: '\n' | '\r'
;

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

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

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

// -----
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the gramamr file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
: .
{
Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharPositionInLine(state.tokenStartCharPositionInLine);
}

```



```
String msg = getTokenErrorDisplay(t)
+ " came as a complete surprise to me";
grammarError(ErrorType.SYNTAX_ERROR, t, msg);
state.syntaxErrors++;
skip();
}
;
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/parse/ANTLRLexer.g
```

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/*
```

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```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/parse/ANTLRParser.java
```

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```

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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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```

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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/1014221960\_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.g

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year>  
<name of author>
```

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary.

Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

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Version 3, 29 June 2007

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(1)

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#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The

"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years

and valid for as

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```
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```

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## 1.98 snake-yaml 1.26

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# 1.102 mawk 1.3.4.20200120-2

## 1.102.1 Available under license :

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Files: debian/\*

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## 1.106 libpng 1.6.37-2

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```
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```

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```

```
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```

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* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/database.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/misc.c
*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/job.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/compat.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/do_command.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/user.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/config.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/entry.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/cron.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/env.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/cron.c
```

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.\"
.\" @(#)bitstring.3 5.1
.\" (Berkeley) 12/13/89
.\"
```

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.3
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```

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.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"
```

Found in path(s):

```
*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.1
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*/
```

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/compat.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/pathnames.h
*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/externs.h
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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

Found in path(s):

```
*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.8
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*/
```

```
$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $
```

Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.



You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by

Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows \_PATH\_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:

```
make all
```

su and say:

```
make install
```

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

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\* @(#)bitstring.h 5.2

(Berkeley) 4/4/90

\*/

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# */
```

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta

was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)

'make'

'su' and 'make install'

(you may have to install the man pages by hand)

kill your existing cron process

(actually you can run your existing cron if you want, but why?)

build new crontabs using /usr/lib/{crontab,crontab.local}

(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into

ranges with steps -- basically, this step is as much work as you want to make it)

start up the new cron

(must be done as root)

watch it. test it with 'crontab -r' and watch the daemon track your changes.

if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

\$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp \$

Found in path(s):

\* /opt/cola/permits/1029757352\_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/README

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.\" */  
.\"  
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $  
.\"
```

Found in path(s):

\*

/opt/cola/permits/1029757352\_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.5

# 1.110 jna 5.5.0

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Version 2.0, January 2004

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## 1.121 es6-promise 4.2.8

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## 1.122 byte-size 5.0.1

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## 1.123 xorg 7.7+19ubuntu14

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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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## 1.124 fs-minipass 1.2.7

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## 1.136 hostname 3.23

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## 1.138 sed 4.7-1

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## 1.140 base-passwd 3.5.47

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```
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```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical



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<signature of Ty Coon>, 1 April 1989  
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Upstream-Name: base-passwd  
Upstream-Contact: Colin Watson <cjwatson@debian.org>

Files: \*

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passwd.master  
group.master

License: PD

X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and  
Bruce Perens <bruce@pixar.com>.

Files: doc/\*

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# 1.141 bzip2 1.0.8-2

## 1.141.1 Available under license :

-----  
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Julian Seward, jseward@acm.org  
bzip2/libbzip2 version 1.0.8 of 13 July 2019  
-----

# 1.142 cracklib 2.9.6-3.2

## 1.142.1 Available under license :

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Version 2.1, February 1999

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distribute

the object code for the work under the terms of Section 6.

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<one line to give the library's name and a brief idea of what it does.>

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

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-----  
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-----

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license  
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML  
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
r=20  
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
=2Dmike

Re: [Cracklib-devel] cracklib license  
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18  
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan  
=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679  
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:15 PM  
> To: cracklib-devel@li...  
> Subject: [Cracklib-devel] cracklib license  
>=20  
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing  
> libraries under  
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
> -mike

Re: [Cracklib-devel] cracklib license  
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML  
On Monday 01 October 2007, Neulinger, Nathan

wrote:

> I understand that, and you're welcome to bring it up with Alec directly  
> and see if he wants to relicense his code as LGPL... but at this point,  
> it was enough to just get it consistent and documented as to what it was  
> released under. This wasn't actually a license change, just a  
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20  
GPL-2 ... it was a modified artistic license ... i didnt notice the license=  
=20  
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=  
eir=20  
applications are also GPL-2 which imo is just wrong. it isnt the place of =  
a=20  
library to dictact to application writes what license they should be using.=  
=20  
thus LGPL-2.1 enters to fill this void.  
=2Dmike

Re: [Cracklib-devel]  
cracklib license  
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46  
Seems like the ideal thing here would be for you and the other distro

maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...  
University of Missouri - Rolla Phone: (573) 341-6679  
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:33 PM  
> To: Neulinger, Nathan  
> Cc: cracklib-devel@li...; Alec Muffett  
> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:  
> > I understand that, and you're welcome to bring it up with Alec  
> directly  
> > and see if he wants to relicense his code as LGPL... but at this  
> point,  
> > it was enough to just get it consistent and documented as to what  
> it was  
> > released under. This wasn't actually a license change, just a  
> > clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was  
> not  
> GPL-2 ... it was a modified artistic license ... i didnt notice the  
> license  
> change until it was mentioned in the latest notes.

>=20

> unlike the old license, GPL-2 prevents people from using cracklib  
> unless their  
> applications are also GPL-2 which imo is just wrong. it isnt the  
> place of a  
> library

to dictact to application writes what license they should

> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike



Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a  
> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be  
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I

think it is in everyone's

best interests to have as secure systems as possible, and I think tainting  
it via GPL will just make it less likely that the library gets used, and  
will not usually cause companies/developers to GPL the dependent code  
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct  
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro  
>> maintainers to get together with Alec in a conversation and come to a  
>> decision as to what licensing scheme y'all want. I haven't really done  
>> much other than cleaning up the packaging and patches and a small  
>> bit of  
>> additional

code, so whatever licensing y'all come up with is fine

>> by me.

>

> I am sympathetic. Guys, what do you reckon?

>  
> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable  
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,  
GPLv2 with the option of using the library under a later version of the  
GPL would permit applications which were released under version 3 of the  
GPL to use the library, too, which would be sufficient for the packages  
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license  
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:  
>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a  
>>> decision as to what licensing scheme y'all want. I haven't really done  
>>> much other than cleaning up the packaging and patches and a small  
>>> bit of  
>>> additional code, so whatever licensing y'all come up with is fine  
>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

>> What I am hearing so far is that LGPL makes sense, since it can be  
>> linked with any code, not just GPL...

>

> My apologies for not chiming in in anything resembling a reasonable  
> timeframe.

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,  
> GPLv2 with the option of using

the library under a later version of the

> GPL would permit applications which were released under version 3 of the

> GPL to use the library, too, which would be sufficient for the packages

> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make

> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October

2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we

> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-----

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

-----

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed

as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-----

From  
alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtp020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from  
[82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]

Status: RO  
Content-Length:  
585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

# 1.143 libpwquality 1.4.2-1build1

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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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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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## 1.149 Iodash.restparam 3.6.1

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 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1078202330_1597270881.42/0/fis-components-lodash-restparam-3-6-1-0-g4b84b80-tar-gz/fis-components-lodash.restparam-3692f6f/index.js
```

# 1.150 lodash-baseindexof 3.1.0

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 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1078202342_1597270964.99/0/fis-components-lodash-bindcallback-3-0-1-0-ga3774f0-tar-gz/fis-components-lodash._bindcallback-ef3539e/index.js
```

# 1.152 lodash-cacheindexof 3.0.2

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*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1078202442_1597270786.77/0/fis-components-lodash-getnative-3-9-1-0-g99a6587-tar-gz/fis-components-lodash._getnative-20042e8/index.js
```

# 1.154 Iodash-createcache 3.1.2

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# 1.155 Iodash-root 3.0.1

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## 1.156 lodash.clonedeep 4.5.0

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## 1.158 cdebconf 0.251ubuntu1

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## 1.161 tre 0.8.0

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## 1.162 bson 4.0.5

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
jar/org/bson/codecs/pojo/ConventionObjectIdGeneratorsImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
jar/org/bson/codecs/pojo/IdGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
jar/org/bson/codecs/BsonCodec.java  
\*

/opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
jar/org/bson/codecs/pojo/IdPropertyModelHolder.java

\* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
jar/org/bson/codecs/pojo/IdGenerators.java

\* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
jar/org/bson/codecs/BsonCodecProvider.java

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\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonSymbol.java

\* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
jar/org/bson/codecs/pojo/DiscriminatorLookup.java

```

* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/RawBsonDocumentCodec.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonValue.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/ObjectIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/annotations/BsonId.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/internal/Optional.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonObjectId.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonRegularExpression.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/types/CodeWithScope.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonStringConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/SymbolCodec.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/StringUtils.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/types/MaxKey.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/internal/ProvidersCodecRegistry.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/AbstractBsonReader.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/StrictJsonWriter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ShellUndefinedConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BasicBSONDecoder.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/DocumentCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/AutomaticPojoCodec.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonNullConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/MapCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/AtomicLongCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonReader.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/diagnostics/SLF4JLogger.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-

```

```

jar/org/bson/json/ShellBinaryConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonMaximumSizeExceededException.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/ByteArrayCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonBoolean.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/internal/ChildCodecRegistry.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ExtendedJsonBinaryConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonBuffer.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/TypeData.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonDoubleConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonTypeCodecMap.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonStreamBuffer.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PropertyReflectionUtils.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/configuration/package-info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/ConventionAnnotationImpl.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ExtendedJsonInt32Converter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/io/ByteBufferBsonInput.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/RawBsonDocument.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ExtendedJsonRegularExpressionConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/ClassModelBuilder.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/conversions/Bson.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/diagnostics/package-info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ExtendedJsonDoubleConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PropertyModelSerializationImpl.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-

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jar/org/bson/BasicBSONEncoder.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/NoOpFieldNameValidator.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BasicBSONCallback.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ExtendedJsonInt64Converter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/OverridableUuidRepresentationUuidCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/MapPropertyCodecProvider.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/jsr310/package-info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/package-
info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonJavaScriptWithScope.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonDoubleCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonJavaScript.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/Either.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PropertyModelBuilder.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonReader.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/FallbackPropertyCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ExtendedJsonUndefinedConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PojoSpecializationHelper.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ExtendedJsonMaxKeyConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/StrictCharacterStreamJsonWriterSettings.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/types/Symbol.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonStringBuffer.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/io/BsonInput.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/DateCodec.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/LazyMissingCodec.java

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* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/LegacyExtendedJsonRegularExpressionConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/configuration/MapOfCodecsProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/types/Code.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/internal/UuidHelper.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonDocument.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/CollectibleCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonDocumentReader.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/Encoder.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonBinaryWriterSettings.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/LazyPojoCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonUndefined.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonBinaryWriter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonUndefinedCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonParseException.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonInt32.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BSONCallback.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/DecoderContext.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonElement.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/Document.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/types/MinKey.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BooleanCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/UuidCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonToken.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/EncoderContext.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/InstanceCreatorFactoryImpl.java

```

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*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/io/BasicOutputBuffer.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ShellMaxKeyConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/MinKeyCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ShellRegularExpressionConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/JSONEncoder.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/configuration/CodecRegistries.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonScanner.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/JSONException.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/IdGenerator.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/InstanceCreatorImpl.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PropertyCodecRegistryImpl.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonBinaryCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/TypeWithTypeParameters.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonWriter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonNumber.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonWriter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PojoBuilderHelper.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/MaxKeyCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/ConventionUseGettersAsSettersImpl.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/annotations/BsonDiscriminator.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonDbPointer.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/ByteBuf.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonMode.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/annotations/package-info.java

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* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonSymbolCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/Bits.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonString.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonObjectIdCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/ObjectIdCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonTimestamp.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/CreatorExecutable.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/CodeCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonDBPointerCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonBinarySubType.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/Converter.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ExtendedJsonTimestampConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/LegacyExtendedJsonBinaryConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/util/package-
info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/Conventions.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonBooleanCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/ShortCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/io/package-
info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/diagnostics/Loggers.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ShellTimestampConverter.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonInt64.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonBinary.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonValueCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonJavaScriptWithScopeCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-

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jar/org/bson/types/ObjectId.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/IterableCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonBinaryReader.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonDecimal128Codec.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/PatternCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/FloatCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/OverridableUuidRepresentationCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/RelaxedExtendedJsonDoubleConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/configuration/CodecConfigurationException.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonBooleanConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/assertions/package-info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonDateTime.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/types/StringRangeSet.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PojoCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/LazyBSONDecoder.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ExtendedJsonObjectIdConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/NumberCodecHelper.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/annotations/BsonProperty.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/EmptyBSONCallback.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/CollectionPropertyCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BSONCallbackAdapter.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PojoCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonDocumentWriter.java

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\* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/json/RelaxedExtendedJsonDateTimeConverter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/codecs/pojo/annotations/BsonIgnore.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/codecs/jsr310/DateTimeBasedCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/codecs/CharacterCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/LazyBSONCallback.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/BsonDecimal128.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/types/BasicBSONList.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/codecs/configuration/CodecRegistry.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/codecs/pojo/PropertyCodecProvider.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/codecs/Decoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/codecs/pojo/PropertyMetadata.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/codecs/pojo/PropertyAccessorImpl.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/json/ExtendedJsonDecimal128Converter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/codecs/IntegerCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/codecs/BsonInt64Codec.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/internal/CodecCache.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/BSONDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/codecs/pojo/EnumPropertyCodecProvider.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/package-  
 info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/BsonDocumentWrapper.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/codecs/CodeWithScopeCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/codecs/BsonDateTimeCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-  
 jar/org/bson/codecs/pojo/ConventionSetPrivateFieldImpl.java

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*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/types/package-
info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/package-info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/LegacyExtendedJsonDateTimeConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PojoCodecImpl.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/InstanceCreatorFactory.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/types/CodeWScope.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BSONObject.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PropertyAccessor.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonNullCodec.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonMaxKeyCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonJavaScriptConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonInt32Converter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonTimestampCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonReaderMark.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/IterableCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/DoubleCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonDouble.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/Convention.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/AtomicBooleanCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/LongCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/UuidCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/internal/Base64.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/RawBsonValueHelper.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/LazyBSONList.java

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\* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/ByteBufNIO.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/diagnostics/NoOpLogger.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/FieldNameValidator.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/ExtendedJsonDateTimeConverter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonContextType.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/types/Binary.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/UuidRepresentation.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/io/OutputBuffer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/internal/CycleDetectingCodecRegistry.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/BigDecimalCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/JsonWriterSettings.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/internal/LazyCodec.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/DateTimeFormatter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/diagnostics/Logger.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/BsonDocumentWrapperCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonMaxKey.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonInvalidOperationException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/io/BsonOutput.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/ShellObjectIdConverter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/RelaxedExtendedJsonInt64Converter.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/BsonArrayCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/BsonTypeClassMap.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/conversions/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/ConventionDefaultsImpl.java

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* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/Decimal128Codec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/internal/OverridableUuidRepresentationCodecRegistry.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/StringCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BasicBSONObject.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/StrictCharacterStreamJsonWriter.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/ByteCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ShellInt64Converter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/ClassModel.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonDocumentCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/util/Function.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonType.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/internal/CodecRegistryHelper.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/configuration/CodecProvider.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/ValueCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonMinKey.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/AbstractBsonWriter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/types/Decimal128.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonNull.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonWriterSettings.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PropertyModel.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonSerializationException.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonSymbolConverter.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/Transformer.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonStringCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/Codec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-

```

```

jar/org/bson/codecs/BsonJavaScriptCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ExtendedJsonMinKeyConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ShellDecimal128Converter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/DocumentCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonInt32Codec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonMinKeyCodec.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/AtomicIntegerCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonArray.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/InstanceCreator.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BinaryCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/LazyBSONObject.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonRegularExpressionCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonTokenType.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/annotations/BsonCreator.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ShellDateTimeConverter.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ShellMinKeyConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PropertyCodecRegistry.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/RawBsonArray.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/package-info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/io/BsonInputMark.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/MapCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonValueCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/UuidCodecHelper.java
*

```

/opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/TypeParameterMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BSON.java  
\* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/types/BSONTimestamp.java  
\* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/PropertySerialization.java  
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\* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/jsr310/LocalDateTimeCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/jsr310/InstantCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/jsr310/LocalTimeCodec.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/jsr310/Jsr310CodecProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1088518906\_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/jsr310/LocalDateCodec.java  
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```
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/assertions/Assertions.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/util/CopyOnWriteMap.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/util/AbstractCopyOnWriteMap.java
```

## 1.163 t-digest 3.2

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```
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/FloatHistogram.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/AVLGroupTree.java
*
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/Sort.java
```

```
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/TDigest.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/IntAVLTree.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/Histogram.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/MergingDigest.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/Centroid.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/Simple64.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/AbstractTDigest.java
*
/opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/AVLTreeDigest.java
```

## 1.164 grizzled-slf4j 1.3.2

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\* /opt/cola/permits/1092915204\_1670437429.753832/0/grizzled-slf4j-2-11-1-3-2-sources-2-jar/grizzled/slf4j/slf4j.scala

## 1.165 reactive-streams 1.0.2

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\* /opt/ws\_local/PERMITS\_SQL/1092915250\_1600810885.15/0/reactive-streams-1-0-2-sources-1-jar/org/reactivestreams/Subscriber.java

\* /opt/ws\_local/PERMITS\_SQL/1092915250\_1600810885.15/0/reactive-streams-1-0-2-sources-1-jar/org/reactivestreams/Subscription.java

\*

/opt/ws\_local/PERMITS\_SQL/1092915250\_1600810885.15/0/reactive-streams-1-0-2-sources-1-jar/org/reactivestreams/Publisher.java

\* /opt/ws\_local/PERMITS\_SQL/1092915250\_1600810885.15/0/reactive-streams-1-0-2-sources-1-jar/org/reactivestreams/Processor.java

# 1.166 node-gyp 5.1.1

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# 1.167 berkeley-db 5.3.28+dfsg1-0.6ubuntu2

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jar/org/quartz/impl/matchers/EverythingMatcher.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/matchers/StringMatcher.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/JobDetail.java
*
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/matchers/NotMatcher.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/JobExecutionContext.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/JobKey.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/spi/MutableTrigger.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/ExecuteInJTATransaction.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/DateBuilder.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/CronTrigger.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/TimeOfDay.java
```

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* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/DisallowConcurrentExecution.java
*
/opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/SimpleTrigger.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/matchers/NameMatcher.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/matchers/KeyMatcher.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/DailyTimeIntervalScheduleBuilder.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/triggers/CoreTrigger.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/TriggerBuilder.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/SimpleScheduleBuilder.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/CalendarIntervalScheduleBuilder.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/DailyTimeIntervalTrigger.java
*
/opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/matchers/AndMatcher.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/matchers/OrMatcher.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/jdbcjobstore/DailyTimeIntervalTriggerPersistenceDelegate.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/CalendarIntervalTrigger.java
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\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/calendar/BaseCalendar.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/calendar/MonthlyCalendar.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/DirectSchedulerFactory.java  
\*  
/opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/calendar/WeeklyCalendar.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/ee/servlet/QuartzInitializerServlet.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/spi/JobStore.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/core/JobRunShell.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/StdSchedulerFactory.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/core/QuartzSchedulerThread.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/spi/ThreadPool.java  
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\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/calendar/SampledCounter.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/calendar/CounterConfig.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/calendar/SampledRateCounterConfig.java

\*

/opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/calendar/CounterManagerImpl.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-



jar/org/quartz/utis/CircularLossyQueue.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
jar/org/quartz/utis/counter/sampled/SampledCounterImpl.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
jar/org/quartz/utis/counter/sampled/SampledCounterConfig.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
jar/org/quartz/utis/counter/CounterManager.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
jar/org/quartz/utis/counter/CounterImpl.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/utis/counter/Counter.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
jar/org/quartz/utis/counter/sampled/SampledRateCounterImpl.java  
\*  
/opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
jar/org/quartz/utis/counter/sampled/SampledRateCounter.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
jar/org/quartz/utis/counter/sampled/TimeStampedCounterValue.java  
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jar/org/quartz/ee/servlet/QuartzInitializerListener.java  
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\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/jobs/ee/jms/SendTopicMessageJob.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/jobs/ee/jms/SendDestinationMessageJob.java

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\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/jdbcjobstore/SybaseDelegate.java

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- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/jobs/ee/jms/JmsMessageFactory.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/core/QuartzScheduler.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/UnableToInterruptJobException.java
- \*
- /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/TriggerListener.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/RemoteScheduler.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/simpl>LoadingLoaderClassLoadHelper.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/QuartzServer.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/core/RemotableQuartzScheduler.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/jdbcjobstore/Constants.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/core/SchedulerSignalerImpl.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/plugins/history/LoggingJobHistoryPlugin.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/triggers/CalendarIntervalTriggerImpl.java
- \*
- /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/jdbcjobstore/LockException.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/helpers/VersionPrinter.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/jobs/ee/jms/SendQueueMessageJob.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/jdbcjobstore/SimpleSemaphore.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/Trigger.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/jobs/NativeJob.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/TriggerUtils.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/SchedulerFactory.java
- \*
- /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/ee/jta/JTAJobRunShell.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/triggers/AbstractTrigger.java
- \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-

jar/org/quartz/impl/JobExecutionContextImpl.java  
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 \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/jdbcjobstore/Util.java  
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 jar/org/quartz/SchedulerConfigException.java  
 \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/StatefulJob.java  
 \*  
 /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/jobs/FileScanListener.java  
 \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
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 jar/org/quartz/impl/jdbcjobstore/JobStoreCMT.java  
 \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
 jar/org/quartz/utils/PoolingConnectionProvider.java  
 \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
 jar/org/quartz/impl/jdbcjobstore/JobDataMap.java  
 \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
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 jar/org/quartz/simpl/ThreadContextClassLoaderHelper.java  
 \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
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 \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/SchedulerContext.java  
 \* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
 jar/org/quartz/impl/jdbcjobstore/SchedulerStateRecord.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/DBConnectionManager.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/JobExecutionException.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/jdbcjobstore/MSSQLDelegate.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/jdbcjobstore/PointbaseDelegate.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/ee/jta/JTAAnnotationAwareJobRunShellFactory.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/jobs/DirectoryScanJob.java

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/opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/jdbcjobstore/StdJDBCDelegate.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/simpl/CascadingClassLoadHelper.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/ee/jta/UserTransactionHelper.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/jdbcjobstore/JobStoreSupport.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/jobs/ee/mail/SendMailJob.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/spi/JobFactory.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/spi/TimeBroker.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/ObjectAlreadyExistsException.java

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/opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/triggers/CronTriggerImpl.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/plugins/history/LoggingTriggerHistoryPlugin.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/simpl/HostnameInstanceIdGenerator.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/SchedulerMetaData.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/jdbcjobstore/JTANonClusteredSemaphore.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/simpl/ZeroSizeThreadPool.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/SchedulerListener.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/jdbcjobstore/StdJDBCConstants.java

\*

/opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/plugins/management/ShutdownHookPlugin.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/jndi/JNDIConnectionProvider.java

\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-

```

jar/org/quartz/jobs/ee/jms/JmsHelper.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/JobPersistenceException.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/StdJobRunShellFactory.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/triggers/DailyTimeIntervalTriggerImpl.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/simpl/SimpleTimeBroker.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/impl/JobDetailImpl.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/jobs/NoOpJob.java
*
/opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/jdbcjobstore/Semaphore.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/simpl/PropertySettingJobFactory.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/xml/ValidationException.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/core/JobRunShellFactory.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/spi/ClassLoadHelper.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/Scheduler.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/InterruptableJob.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/calendar/HolidayCalendar.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/simpl/SimpleInstanceIdGenerator.java
*
/opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/SchedulerException.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/Calendar.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/jdbcjobstore/JobStoreTX.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/jdbcjobstore/HSQldbDelegate.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/SchedulerRepository.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/jdbcjobstore/InvalidConfigurationException.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/jobs/ee/jmx/JMXInvokerJob.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/spi/SchedulerPlugin.java
*
/opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/simpl/InitThreadContextClassLoadHelper.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/Utils/PropertiesParser.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/spi/SchedulerSignaler.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/simpl/RAMJobStore.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-

```

jar/org/quartz/impl/jdbcjobstore/DB2v8Delegate.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
jar/org/quartz/simpl/SimpleThreadPool.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
jar/org/quartz/ee/jta/JTAJobRunShellFactory.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
jar/org/quartz/spi/TriggerFiredBundle.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
jar/org/quartz/simpl/SimpleClassLoadHelper.java  
\*  
/opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/utis/Key.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
jar/org/quartz/impl/triggers/SimpleTriggerImpl.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
jar/org/quartz/impl/jdbcjobstore/FiredTriggerRecord.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
jar/org/quartz/simpl/SimpleJobFactory.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
jar/org/quartz/impl/jdbcjobstore/TriggerStatus.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
jar/org/quartz/impl/jdbcjobstore/PostgreSQLDelegate.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/jobs/FileScanJob.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
jar/org/quartz/spi/InstanceIdGenerator.java  
\* /opt/cola/permits/1103147594\_1604019252.27/0/quartz-2-1-1-sources-2-  
jar/org/quartz/impl/jdbcjobstore/NoSuchDelegateException.java

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Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

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## 1.174 Lucene 8.7.0

### 1.174.1 Available under license :

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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java implementation of the LZ4 (<https://github.com/lz4/lz4/tree/dev/lib>) compression format for Lucene's DataInput/DataOutput abstractions.

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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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handle mismatched inline element tags.

NekoHTML is written using the Xerces Native Interface (XNI) that is the  
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// Original can be found at:

// <https://bitbucket.org/lindenlab/llsd>

// Modifications by Joshua Bell [inexorabletash@gmail.com](mailto:inexorabletash@gmail.com)

// <https://github.com/inexorabletash/polyfill>

// ES3/ES5 implementation of the Khronos Typed Array Specification

// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>

// Date: 2011-02-01

//

// Variations:

// \* Allows typed\_array.get/set() as alias for subscripts (typed\_array[])

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http-proxy-agent

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### An HTTP(s) proxy `http.Agent` implementation for HTTP

[![Build Status](https://travis-ci.org/TooTallNate/node-http-proxy-agent.svg?branch=master)](https://travis-ci.org/TooTallNate/node-http-proxy-agent)

This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `http` module.

\_\_Note:\_\_ For HTTP proxy usage with the `https` module, check out [node-https-proxy-agent](https://github.com/TooTallNate/node-https-proxy-agent).

Installation

-----

Install with `npm`:

```
``` bash
$ npm install http-proxy-agent
```
```

Example

-----

```
``` js
var url = require('url');
```

```

var http = require('http');
var HttpProxyAgent = require('http-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTP endpoint
for the proxy to connect to
var endpoint = process.argv[2] || 'http://nodejs.org/api/';
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);

// create an instance of the `HttpProxyAgent` class with the proxy server information
var agent = new HttpProxyAgent(proxy);
opts.agent = agent;

http.get(opts, function (res) {
  console.log('"response" event!', res.headers);
  res.pipe(process.stdout);
});

```

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Found in path(s):

\* /opt/cola/permits/1110633572\_1612225616.61/0/http-proxy-agent-2-1-0-5-tgz/package/README.md

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validate-npm-package-license

=====

Give me a string and I'll tell you if it's a valid npm package license string.

```
````javascript
var valid = require('validate-npm-package-license');
````
```

SPDX license identifiers are valid license strings:

```
````javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
}
```

```
  spdx: true
};
```

```
assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
...

```

The function will return a warning and suggestion for nearly-correct license identifiers:

```
```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      "'UNLICENSED', or ' +
      "'SEE LICENSE IN <filename>",
      'license is similar to the valid expression "Apache-2.0"'
    ]
  }
);
...

```

SPDX expressions are valid, too ...

```
```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('(GPL-3.0-only OR BSD-2-Clause)'),
  validSPDXExpression
);
...

```

... except if they contain `LicenseRef`:

```
```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    "'UNLICENSED', or ' +

```

```

    "SEE LICENSE IN <filename>",
  ]
};

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);
```

```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```

```javascript
assert.deepEqual(
  valid('SEE
LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);

assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
  }
);
```

```

If there aren't any licensing terms, use `UNLICENSED`:

```

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
```

```

```
assert.deepEqual(valid('UNLICENSED'), unlicensed);  
...
```

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\* /opt/cola/permits/1110635849\_1607035374.31/0/imurmurhash-0-1-4-4-tgz/package/README.md

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# 1.250 oauth-sign 0.9.0

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Found in path(s):

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableTable.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/SingletonImmutableList.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/RegularImmutableList.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ArrayTable.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AbstractIndexedListIterator.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableAsList.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ComputationException.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ComparisonChain.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingTable.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableSetMultimap.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableEnumSet.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/EmptyImmutableSetMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/RegularImmutableSortedSet.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableClassToInstanceMap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/DiscreteDomain.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/SingletonImmutableTable.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableSortedMap.java  
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*/
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable}
 to use {@link
 *   ImmutableSortedMap#of(Comparable, Object)}.</b>
 */

```

Found in path(s):

```

* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/CompoundOrdering.java

```

```

* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ConcurrentHashMultiset.java

```

```

* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-

```



jar/com/google/common/collect/ComparatorOrdering.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/AbstractMultiset.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ReverseNaturalOrdering.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ImmutableSet.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ForwardingSortedSet.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ForwardingListIterator.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/TreeMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/LinkedListMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ForwardingSortedMap.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/Iterators.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ExplicitOrdering.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/LexicographicalOrdering.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/Multiset.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/LinkedHashMultiset.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/SetMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/package-info.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/UsingToStringOrdering.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/HashMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/NaturalOrdering.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/SortedSetMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/NullsLastOrdering.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/Multisets.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/LinkedHashMultimap.java

```

* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/Maps.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ForwardingConcurrentMap.java
*
/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ForwardingMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/Interner.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/RegularImmutableSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/Iterables.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ForwardingCollection.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/MapDifference.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/AbstractBiMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/EnumHashBiMap.java
*
/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/BiMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ForwardingSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ArrayListMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ForwardingMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ForwardingMapEntry.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/AbstractIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/AbstractListMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/HashMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ImmutableList.java
*
/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/Synchronized.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ListMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ForwardingIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-

```

jar/com/google/common/collect/MutableClassToInstanceMap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/AbstractSortedSetMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ClassToInstanceMap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/AbstractSetMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ForwardingQueue.java  
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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/NullsFirstOrdering.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/Multimaps.java  
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jar/com/google/common/collect/ForwardingObject.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/Multimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/Ordering.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/AbstractMapBasedMultiset.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ForwardingMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/Sets.java  
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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/SingletonImmutableSet.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/Lists.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ByFunctionOrdering.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/AbstractMapBasedMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/TreeMultiset.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/AbstractMapEntry.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ForwardingList.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/EnumBiMap.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ReverseOrdering.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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 */
```

Found in path(s):

```
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/SmallCharMatcher.java
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```
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/AtomicLongMap.java
```

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/WellBehavedMap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/GwtTransient.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/MoreFiles.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableMapEntry.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/MultimapBuilder.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-

jar/com/google/common/hash/MacHashFunction.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/util/concurrent/AsyncCallable.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/hash/LittleEndianByteArray.java  
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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/util/concurrent/InterruptibleTask.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/util/concurrent/CombinedFuture.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/util/concurrent/AggregateFutureState.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/hash/FarmHashFingerprint64.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/io/ReaderInputStream.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ConsumingQueueIterator.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/util/concurrent/Platform.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
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jar/com/google/common/collect/JdkBackedImmutableBiMap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/IndexedImmutableSet.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/math/LongMath.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/WrappingExecutorService.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/net/HttpHeaders.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ExecutionError.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Present.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/RegularImmutableMultiset.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/net/MediaType.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/EmptyContiguousSet.java  
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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/BloomFilterStrategies.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/cache/ForwardingLoadingCache.java  
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jar/com/google/common/cache/CacheLoader.java



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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
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jar/com/google/common/collect/Queues.java  
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jar/com/google/common/base/PairwiseEquivalence.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/cache/LongAdder.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/Subscriber.java

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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/Dispatcher.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ListenerCallQueue.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/SortedIterables.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingSortedMultiset.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/GeneralRange.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/SortedIterable.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableSortedMultiset.java

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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/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/Partially.java
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```
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/ImmediateFuture.java
```

```
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/escape/CharEscaperBuilder.java
```

```
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
```

```
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
```

```
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
```

```
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/AggregateFuture.java
```

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/annotations/VisibleForTesting.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/PatternFilenameFilter.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java  
\*

/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/FakeTimeLimiter.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/FluentFuture.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/escape/CharEscaper.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/CaseFormat.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/CollectionFuture.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/TimeLimiter.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/TypeToken.java  
\*

/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AbstractTransformFuture.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/TimeoutFuture.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/AppendableWriter.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/Futures.java

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/\*\*

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

\*/

Found in path(s):

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-

```
jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/AbstractSequentialIterator.java
*
/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ForwardingListMultimap.java
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*/
/**
* Returns an array containing all of the elements in the specified collection. This method
* returns the elements in the order they are returned by the collection's iterator. The returned
* array is "safe" in that no references to it are maintained by the collection. The caller is
* thus free to modify the returned
array.
*
* <p>This method assumes that the collection size doesn't change while the method is running.
*
* <p>TODO(kevinb): support concurrently modified collections?
*
* @param c the collection for which to return an array of elements
*/
```



Found in path(s):

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ObjectArrays.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/annotations/package-info.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/package-info.java

\*

/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Equivalence.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Strings.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/net/package-info.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/SortedLists.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ContiguousSet.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/Atomics.java

\*

/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/Monitor.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ListeningExecutorService.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/annotations/Beta.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Ascii.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/ImmutableDoubleArray.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/AbstractHashFunction.java

\*

/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ForwardingLock.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ForwardingCondition.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/ImmutableIntArray.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/CommonPattern.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/CommonMatcher.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/JdkPattern.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/CharSequenceReader.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Utf8.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/SubscriberExceptionContext.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Verify.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-

jar/com/google/common/eventbus/SubscriberExceptionHandler.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/AbstractTable.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/FilteredMultimapValues.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/hash/HashingInputStream.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/base/VerifyException.java

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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/util/concurrent/Runnables.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/reflect/TypeVisitor.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Predicates.java

\*

/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Objects.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Function.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Defaults.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/package-info.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/AsyncEventBus.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/Subscribe.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/ByteStreams.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/EnumMultiset.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-

jar/com/google/common/io/LittleEndianDataInputStream.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/base/Predicate.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/eventbus/package-info.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/io/CountingOutputStream.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/io/MultiInputStream.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/base/FinalizableReference.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/base/FinalizableReferenceQueue.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/eventbus/AllowConcurrentEvents.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/io/Resources.java  
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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/util/concurrent/ListenableFuture.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/Interners.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/base/Supplier.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/io/LineBuffer.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/base/FinalizableSoftReference.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/io/Closeables.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/util/concurrent/AbstractFuture.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/io/Flushables.java  
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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/io/CharStreams.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/base/Suppliers.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/io/LittleEndianDataOutputStream.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/base/AbstractIterator.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/base/Functions.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/base/Throwables.java

```

* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/package-
info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/ExecutionList.java
*
/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/Files.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/io/CountingInputStream.java
*
/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/FinalizableWeakReference.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/PredecessorsFunction.java

```

```
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/io/InsecureRecursiveDeleteException.java
```

```
*
```

```
/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/graph/ImmutableNetwork.java
```

```
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/graph/SuccessorsFunction.java
```

```
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/graph/MutableGraph.java
```

```
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/graph/Network.java
```

```
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/graph/MutableNetwork.java
```

```
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/TopKSelector.java
```

```
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/graph/ImmutableGraph.java
```

```
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/graph/Graph.java
```

```
*
```

```
/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/graph/Graphs.java
```

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```
*/
```

```
/*
```

```
* This method was written by Doug Lea with assistance from members of JCP JSR-166 Expert Group
```

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* and released to the public domain, as explained at
```

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```

```
*
```

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

```
* java.util.HashMap
```

```
class.
```

```
*/
```



Found in path(s):

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/Striped.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/JdkBackedImmutableMultiset.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/ImmutableSupplier.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/JdkBackedImmutableSet.java

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Found in path(s):

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/BaseGraph.java

```
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/Traverser.java
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```
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/CollectSpliterators.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ImmutableBiMapFauxverideShim.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
* following header:
*
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* hereby
disclaims copyright to this source code.
*/
```

Found in path(s):

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*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/Hashing.java
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```
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jar/com/google/common/math/PairedStats.java
```

```
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/RateLimiter.java
```

```
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ImmutableRangeMap.java
```

```
*/
```

```
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/reflect/TypeToInstanceMap.java
```

```
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/math/PairedStatsAccumulator.java
```

```
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/math/StatsAccumulator.java
```

```
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/reflect/Parameter.java
```

```
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/hash/SipHashFunction.java
```

```
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/reflect/AbstractInvocationHandler.java
```

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/ByteSource.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/ClassPath.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/Element.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/FileWriteMode.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/SmoothRateLimiter.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/html/package-info.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/ByteSink.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/math/Stats.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/MutableTypeToInstanceMap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableRangeSet.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/package-info.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/cache/LongAddable.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/CharSink.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/LongAddable.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ServiceManager.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/Invokable.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/FilteredKeyMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/BaseEncoding.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/escape/package-info.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/StandardSystemProperty.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/cache/LongAddables.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-

jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/xml/package-info.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/math/LinearTransformation.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/AbstractByteHasher.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/Closer.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/ChecksumHashFunction.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/TypeCapture.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/CartesianList.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/CharSource.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/LongAddables.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/SortedMultiset.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/SortedMultisets.java  
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jar/com/google/common/util/concurrent/MoreExecutors.java
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```
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/io/ByteArrayDataInput.java
```

```
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/cache/CacheBuilder.java
```

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
```

jar/com/google/common/annotations/GwtCompatible.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/cache/LocalCache.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/io/ByteArrayDataOutput.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/util/concurrent/AbstractIdleService.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/base/Splitter.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/SparseImmutableTable.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/escape/Escapers.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/util/concurrent/SettableFuture.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/net/HostSpecifier.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/DenseImmutableTable.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/FluentIterable.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Stopwatch.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AbstractNavigableMap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/EvictingQueue.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/FilteredEntryMultimap.java

\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/UnmodifiableSortedMultiset.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/FilteredMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/CompactHashSet.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/TreeRangeMap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingDeque.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-

jar/com/google/common/collect/TransformedIterator.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/CompactLinkedHashMap.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ForwardingImmutableList.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/TransformedListIterator.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/TreeTraverser.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/CompactHashMap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/FilteredEntrySetMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/DescendingMultiset.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/RangeMap.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/DescendingImmutableSortedSet.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/AbstractMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ImmutableEnumMap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/FilteredSetMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/CompactLinkedHashSet.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ForwardingNavigableSet.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/FilteredKeyListMultimap.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/SortedMultisetBridge.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/RegularImmutableAsList.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/AllEqualOrdering.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ForwardingImmutableMap.java

```
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ForwardingNavigableMap.java
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```
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```
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/Streams.java
```

## 1.318 ucf 3.0038+nmu1

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Upstream-Name: ucf

Upstream-Contact: Manoj Srivastava <srivasta@debian.org>

Source: <https://anonscm.debian.org/users/srivasta/debian/ucf.git>

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```
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```
def v: String = "3.5.0"
```

```
lazy val root = (project in file(".")).
```

```
settings(
```

```
  inThisBuild(Seq(
```

```
    version := v,
```

```
    organization := "com.github.scopt",
```

```
    scalaVersion := "2.11.8",
```

```
    crossScalaVersions := Seq("2.11.8", "2.10.6", "2.12.0-M4"),
```

```
    homepage := Some(url("https://github.com/scopt/scopt")),
```

```
    licenses := Seq("MIT License" -> url("http://www.opensource.org/licenses/mit-license.php"))
```

```
 )),
```

```
  name := "scopt",
```

```
  // site
```

```
  // to preview, preview-site
```

```
  // to push, ghpages-push-site
```

```
  site.settings,
```

```
  site.includeScaladoc(s"$v/api"),
```

```
  ghpages.settings,
```

```
  git.remoteRepo := "git@github.com:scopt/scopt.git",
```

```
  description := """"a command line options parsing library""",
```

```
  libraryDependencies += {
```

```
    scalaVersion.value match {
```

```
      case x if x startsWith "2.10." => List("org.specs2" %% "specs2" % "2.3.3" % "test")
```

```
      case x if x startsWith "2.11." => List("org.specs2"
```

```
%% "specs2" % "2.3.11" % "test")
```

```
      case _ => Nil
```

```
    }
```

```
  },
```

```
  scalacOptions += Seq("-language:existentials"),
```

```
resolvers += "sonatype-public" at "https://oss.sonatype.org/content/repositories/public",
// scaladoc fix
unmanagedClasspath in Compile += Attributed.blank(new java.io.File("doesnotexist"))
)
```

Found in path(s):

\* /opt/cola/permits/1110919748\_1669800642.3018022/0/scopt-3-5-0-zip/scopt-3.5.0/build.sbt

## 1.322 jackson 2.10.4

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# 1.323 readable-stream 3.6.0

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# 1.326 https-proxy-agent 2.2.4

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https-proxy-agent

=====

### An HTTP(s) proxy `http.Agent` implementation for HTTPS

[![Build Status](https://travis-ci.org/TooTallNate/node-https-proxy-agent.svg?branch=master)](https://travis-ci.org/TooTallNate/node-https-proxy-agent)

This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `https` module.

Specifically, this `Agent` implementation connects to an intermediary "proxy" server and issues the [CONNECT HTTP method][CONNECT], which tells the proxy to open a direct TCP connection to the destination server.

Since this agent implements the CONNECT HTTP method, it also works with other protocols that use this method when connecting over proxies (i.e. WebSockets). See the "Examples" section below for more.

Installation

-----

Install with `npm`:

```
``` bash
$ npm install https-proxy-agent
```
```

Examples

-----

####

`https` module example

```
``` js
var url = require('url');
var https = require('https');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
```

```

console.log('using proxy server %j', proxy);

// HTTPS endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'https://graph.facebook.com/tootallnate';
console.log('attempting to GET %j', endpoint);
var options = url.parse(endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var agent = new HttpsProxyAgent(proxy);
options.agent = agent;

https.get(options, function (res) {
  console.log('"response" event!', res.headers);
  res.pipe(process.stdout);
});
```



```

#### `ws` WebSocket connection example

``` js
var url = require('url');
var WebSocket = require('ws');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy
  || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
var parsed = url.parse(endpoint);
console.log('attempting to connect to WebSocket %j', endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var options = url.parse(proxy);

var agent = new HttpsProxyAgent(options);

// finally, initiate the WebSocket connection
var socket = new WebSocket(endpoint, { agent: agent });

socket.on('open', function () {
  console.log('"open" event!');
  socket.send('hello world');
});

socket.on('message', function (data, flags) {

```


```

```
console.log("message" event! %j %j', data, flags);
socket.close();
});
```
```

## API

---

```
### new HttpsProxyAgent(Object options)
```

The `HttpsProxyAgent` class implements an `http.Agent` subclass that connects to the specified "HTTP(s) proxy server" in order to proxy HTTPS and/or WebSocket requests.

This is achieved by using the `[HTTP `CONNECT` method][CONNECT]`.

The `options` argument may either be a string URI of the proxy server to use, or an "options" object with more specific properties:

- \* `host` - String - Proxy host to connect to (may use `hostname` as well). Required.
- \* `port` - Number - Proxy port to connect to. Required.
- \* `protocol` - String - If `https:`, then use TLS to connect to the proxy.
- \* `headers` - Object - Additional HTTP headers to be sent on the HTTP CONNECT method.
- \* Any other options given are passed to the `net.connect()`/`tls.connect()` functions.

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-----

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[CONNECT]: [http://en.wikipedia.org/wiki/HTTP\\_tunnel#HTTP\\_CONNECT\\_Tunneling](http://en.wikipedia.org/wiki/HTTP_tunnel#HTTP_CONNECT_Tunneling)

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\* /opt/cola/permits/1112087480\_1607035434.28/0/https-proxy-agent-2-2-4-6-tgz/package/README.md

## 1.327 socks 2.3.3

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* /opt/cola/permits/1112087866_1607035279.17/0/node-modules-agentkeepalive-3-5-2-0-g9b81362-tar-gz/node-modules-agentkeepalive-9b81362/README.md
```

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```
* /opt/cola/permits/1112087866_1607035279.17/0/node-modules-agentkeepalive-3-5-2-0-g9b81362-tar-gz/node-modules-agentkeepalive-9b81362/lib/_http_agent.js
```

## 1.329 stringify-package 1.0.1

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## 1.331 socks-proxy-agent 4.0.2

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socks-proxy-agent

=====

### A SOCKS proxy `http.Agent` implementation for HTTP and HTTPS

[![Build Status](https://travis-ci.org/TooTallNate/node-socks-proxy-agent.svg?branch=master)](https://travis-ci.org/TooTallNate/node-socks-proxy-agent)

This module provides an `http.Agent` implementation that connects to a specified SOCKS proxy server, and can be used with the built-in `http` or `https` modules.

It can also be used in conjunction with the `ws` module to establish a WebSocket connection over a SOCKS proxy. See the "Examples" section below.

Installation

-----

Install with `npm`:

```
``` bash
$ npm install socks-proxy-agent
```
```

Examples

-----

#### `http` module example

```

``` js
var url = require('url');
var http = require('http');
var SocksProxyAgent = require('socks-proxy-agent');

// SOCKS proxy to connect to
var proxy = process.env.socks_proxy || 'socks://127.0.0.1:9050';
console.log('using
proxy server %j', proxy);

// HTTP endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'http://nodejs.org/api/';
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);

// create an instance of the `SocksProxyAgent` class with the proxy server information
var agent = new SocksProxyAgent(proxy);
opts.agent = agent;

http.get(opts, function (res) {
  console.log('"response" event!', res.headers);
  res.pipe(process.stdout);
});
```

```

#### `https` module example

```

``` js
var url = require('url');
var https = require('https');
var SocksProxyAgent = require('socks-proxy-agent');

// SOCKS proxy to connect to
var proxy = process.env.socks_proxy || 'socks://127.0.0.1:9050';
console.log('using proxy server %j', proxy);

// HTTP endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'https://encrypted.google.com/';
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);

// create an instance of the `SocksProxyAgent`
class with the proxy server information
var agent = new SocksProxyAgent(proxy);
opts.agent = agent;

https.get(opts, function (res) {

```

```
console.log("response" event!, res.headers);
res.pipe(process.stdout);
});
```
```

#### `ws` WebSocket connection example

```
``` js
var WebSocket = require('ws');
var SocksProxyAgent = require('socks-proxy-agent');

// SOCKS proxy to connect to
var proxy = process.env.socks_proxy || 'socks://127.0.0.1:9050';
console.log('using proxy server %j', proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
console.log('attempting to connect to WebSocket %j', endpoint);

// create an instance of the `SocksProxyAgent` class with the proxy server information
var agent = new SocksProxyAgent(proxy);

// initiate the WebSocket connection
var socket = new WebSocket(endpoint, { agent: agent });

socket.on('open', function () {
  console.log("open" event!);
  socket.send('hello world');
});

socket.on('message',
function (data, flags) {
  console.log("message" event! %j %j', data, flags);
  socket.close();
});
```
```

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-----

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\* /opt/cola/permits/1112087816\_1607035421.82/0/socks-proxy-agent-4-0-2-5-tgz/package/README.md

## 1.332 p-try 2.2.0

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\* /opt/cola/permits/1112087593\_1607035045.04/0/agent-base-4-3-0-5-tgz/package/README.md

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## 1.341 libusb 1.0.23-4.el8

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## 1.342 groovy 2.5.14

### 1.342.1 Available under license :

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Found in path(s):

\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
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jar/org/apache/groovy/util/concurrentlinkedhashmap/Weigher.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/apache/groovy/util/concurrentlinkedhashmap/Weighers.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/apache/groovy/util/concurrentlinkedhashmap/EvictionListener.java  
\*  
/opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/apache/groovy/util/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java  
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# Listed below are default groovy source file extensions.

# NOTE: This implementation  
of supporting multiple file extensions is experimental and  
# the exact implementation details may vary when modularization gets introduced in  
# groovy 2.0. However, in terms of the behavior, this support will remain intact.  
groovy

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\*  
/opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/syntax/package.html  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/control/messages/package.html  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/tools/package.html  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/io/package.html  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/runtime/typehandling/package.html  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/tools/xml/package.html  
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\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/lang/package.html  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/antlr/treewalker/package.html  
\*  
/opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/runtime/package.html  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/overview.html  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/vmplugin/package.html  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/antlr/package.html  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/control/io/package.html  
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\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/reflection/package.html  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/ast/package.html  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/overviewj.html  
\*  
/opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/vmplugin/v5/package.html  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/classgen/asm/package.html  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/tools/javac/package.html  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/grape/defaultGrapeConfig.xml  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/runtime/wrappers/package.html  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/inspect/package.html  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/runtime/metaclass/package.html  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-



jar/org/codehaus/groovy/ast/stmt/package.html

\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/time/package.html

\*

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jar/org/codehaus/groovy/classgen/package.html

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/\*\* Java 1.5 Recognizer

\*

\* Run 'java Main [-showtree] directory-full-of-java-files'

\*

\* [The -showtree option pops up a Swing frame that shows

\* the AST constructed from the parser.]

\*

\* Run 'java Main <directory full of java files>'

\*

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\*

\* Version 1.00 December 9, 1997 -- initial release

\* Version 1.01 December 10, 1997

\* fixed bug in octal def (0..7 not 0..8)

\* Version 1.10 August 1998 (parrt)

\* added tree construction

\* fixed definition of WS,comments for mac,pc,unix newlines

- \* added unary plus
- \* Version 1.11 (Nov 20, 1998)
- \* Added "shutup" option to turn off last ambig warning.
- \* Fixed inner class def to allow named class defs as statements
- \* synchronized requires compound not simple statement
- \* add [] after builtInType DOT class in primaryExpression
- \* "const" is reserved but not valid..removed from modifiers
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- \* Changed LITERAL\_XXX to XXX in tree grammar.
- \* Updated java.g to use tokens {...} now for 2.6.0 (new feature).
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- \* Allowed final/abstract on local classes.
- \* Removed local interfaces from methods
- \* Put instanceof precedence where it belongs...in relationalExpr
- \* It also had expr not type as arg; fixed it.
- \* Missing ! on SEMI in classBlock
- \* fixed: (expr) + "string" was parsed incorrectly  
(+ as unary plus).
- \* fixed: didn't like Object[].class in parser or tree parser
- \* Version 1.15 (Jun 26, 1999)
- \* Screwed up rule with instanceof in it. :( Fixed.
- \* Tree parser didn't like (expr).something; fixed.
- \* Allowed multiple inheritance in tree grammar. oops.
- \* Version 1.16 (August 22, 1999)
- \* Extending an interface built a wacky tree: had extra EXTENDS.
- \* Tree grammar didn't allow multiple superinterfaces.
- \* Tree grammar didn't allow empty var initializer: { }
- \* Version 1.17 (October 12, 1999)
- \* ESC lexer rule allowed 399 max not 377 max.
- \* java.tree.g didn't handle the expression of synchronized  
statements.
- \* Version 1.18 (August 12, 2001)
- \* Terence updated to Java 2 Version 1.3 by  
observing/combining work of Allan Jacobs and Steve  
Messick. Handles 1.3 src. Summary:
- \* o primary didn't include boolean.class kind of thing
- \* o constructor calls parsed explicitly now:  
see explicitConstructorInvocation
- \* o add strictfp  
modifier
- \* o missing objBlock after new expression in tree grammar
- \* o merged local class definition alternatives, moved after declaration
- \* o fixed problem with ClassName.super.field

- \* o reordered some alternatives to make things more efficient
- \* o long and double constants were not differentiated from int/float
- \* o whitespace rule was inefficient: matched only one char
- \* o add an examples directory with some nasty 1.3 cases
- \* o made Main.java use buffered IO and a Reader for Unicode support
- \* o supports UNICODE?
- \* Using Unicode charVocabulay makes code file big, but only
- \* in the bitsets at the end. I need to make ANTLR generate
- \* unicode bitsets more efficiently.
- \* Version 1.19 (April 25, 2002)
- \* Terence added in nice fixes by John Pybus concerning floating
- \* constants and problems with super() calls. John did a nice
- \* reorg of the primary/postfix expression stuff to read better
- \* and makes f.g.super() parse properly (it was
- METHOD\_CALL not
- \* a SUPER\_CTOR\_CALL). Also:
- \*
- \* o "finally" clause was a root...made it a child of "try"
- \* o Added stuff for asserts too for Java 1.4, but \*commented out\*
- \* as it is not backward compatible.
- \*
- \* Version 1.20 (October 27, 2002)
- \*
- \* Terence ended up reorging John Pybus' stuff to
- \* remove some nondeterminisms and some syntactic predicates.
- \* Note that the grammar is stricter now; e.g., this(...) must
- \* be the first statement.
- \*
- \* Ternary ?: operator wasn't working as array name:
- \* (isBig ? bigDigits : digits)[i];
- \*
- \* Checked parser/tree parser on source for
- \* Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
- \* and the 110k-line jGuru server source.
- \*
- \* Version 1.21 (October 17, 2003)
- \* Fixed lots of problems including:
- \* Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
- \* He found a problem/fix with floating point that start with 0
- \* Ray also fixed problem that (int.class) was not recognized.
- \* Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
- \* TJP fixed CHAR\_LITERAL analogously.
- \*
- \* Version 1.21.2 (March, 2003)
- \* Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
- \* Notes:
- \* o We only allow the "extends" keyword and not the "implements"
- \* keyword, since that's what JSR14 seems to imply.

- \* o Thanks to Monty Zukowski for his help on the antlr-interest
- \* mail list.
- \* o Thanks to Alan Eliassen for testing the grammar over his
- \* Fink source base
- \*
- \* Version 1.22 (July, 2004)
- \* Changes by Michael Studman to support Java 1.5 language extensions
- \* Notes:
  - \* o Added support for annotations types
  - \* o Finished off Matt Quail's generics enhancements to support bound type arguments
  - \* o Added support for new for statement syntax
  - \* o Added support for static import syntax
  - \* o Added support for enum types
  - \* o Tested against JDK 1.5 source base and source base of jdigraph project
  - \* o Thanks to Matt Quail  
for doing the hard part by doing most of the generics work
- \*
- \* Version 1.22.1 (July 28, 2004)
- \* Bug/omission fixes for Java 1.5 language support
  - \* o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for  
spotting this
  - \* o Fixed bug where incorrect handling of SR and BSR tokens would cause type  
parameters to be recognised as type arguments.
  - \* o Enabled type parameters on constructors, annotations on enum constants  
and package definitions
  - \* o Fixed problems when parsing `((char.class.equals(c))) {}` - solution by Matt Quail at Cenqua
- \*
- \* Version 1.22.2 (July 28, 2004)
- \* Slight refactoring of Java 1.5 language support
  - \* o Refactored for/"foreach" productions so that original literal "for" literal  
is still used but the for sub-clauses vary by token type
  - \* o Fixed bug where type parameter was not included in generic constructor's branch of AST
- \*
- \* Version 1.22.3 (August 26, 2004)
- \* Bug fixes as identified by Michael  
Stahl; clean up of tabs/spaces
  - \* and other refactorings
  - \* o Fixed typeParameters omission in identPrimary and newStatement
  - \* o Replaced GT reconciliation code with simple semantic predicate
  - \* o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
  - \* o Refactored typeDefinition production and field productions to reduce duplication
- \*
- \* Version 1.22.4 (October 21, 2004)
- \* Small bux fixes
  - \* o Added typeArguments to explicitConstructorInvocation, e.g. `new <String>MyParameterised()`
  - \* o Added typeArguments to postfixExpression productions for anonymous inner class super  
constructor invocation, e.g. `new Outer().<String>super()`
  - \* o Fixed bug in array declarations identified by Geoff Roy

\*  
\* Version 1.22.4.j.1  
\* Changes by Jeremy Rayner to support java2groovy tool  
\* o I have taken java.g for Java1.5 from Michael Studman (1.22.4)  
\* and have made some changes to enable use by java2groovy tool (Jan 2007)  
\*  
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\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
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/\*\* JSR-241 Groovy Recognizer.

\*  
\* Run 'java Main [-showtree] directory-full-of-groovy-files'

\* [The -showtree option pops up a Swing frame that shows  
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\*

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\*

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- \* Version 1.15 (Jun 26, 1999)
- \* Screwed up rule with instanceof in it. :( Fixed.
- \* Tree parser didn't like (expr).something; fixed.
- \* Allowed multiple inheritance in tree grammar. oops.
- \* Version 1.16 (August 22, 1999)
- \* Extending an interface built a wacky tree: had extra EXTENDS.
- \* Tree grammar didn't allow multiple superinterfaces.
- \* Tree grammar didn't allow empty var initializer: { }
- \* Version 1.17 (October 12, 1999)
- \* ESC lexer rule allowed 399 max not 377 max.
- \* java.tree.g didn't handle the expression of synchronized statements.
- \*
- \* Version 1.18 (August 12, 2001)
- \* Terence updated to Java 2 Version 1.3 by observing/combining work of Allan Jacobs and Steve Messick. Handles 1.3 src. Summary:
- \* o primary didn't include boolean.class kind of thing
- \* o constructor calls parsed explicitly now: see explicitConstructorInvocation
- \* o add strictfp modifier
- \* o missing objBlock after new expression in tree grammar
- \* o
- merged local class definition alternatives, moved after declaration
- \* o fixed problem with ClassName.super.field
- \* o reordered some alternatives to make things more efficient
- \* o long and double constants were not differentiated from int/float

- \* o whitespace rule was inefficient: matched only one char
- \* o add an examples directory with some nasty 1.3 cases
- \* o made Main.java use buffered IO and a Reader for Unicode support
- \* o supports UNICODE?
- \* Using Unicode charVocabulary makes code file big, but only
- \* in the bitsets at the end. I need to make ANTLR generate
- \* unicode bitsets more efficiently.
- \* Version 1.19 (April 25, 2002)
- \* Terence added in nice fixes by John Pybus concerning floating
- \* constants and problems with super() calls. John did a nice
- \* reorg of the primary/postfix expression
- stuff to read better
- \* and makes f.g.super() parse properly (it was METHOD\_CALL not
- \* a SUPER\_CTOR\_CALL). Also:
- \* o "finally" clause was a root...made it a child of "try"
- \* o Added stuff for asserts too for Java 1.4, but \*commented out\*
- \* as it is not backward compatible.
- \* Version 1.20 (October 27, 2002)
- \* Terence ended up reorganizing John Pybus' stuff to
- \* remove some nondeterminisms and some syntactic predicates.
- \* Note that the grammar is stricter now; e.g., this(...) must
- \* be the first statement.
- \* Trinary ?: operator wasn't working as array name:
- \* (isBig ? bigDigits : digits)[i];
- \* Checked parser/tree parser on source for
- \* Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
- \* and the 110k-line jGuru server source.
- \* Version 1.21 (October 17, 2003)
- \* Fixed lots of problems including:
- \* Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
- \* He found a problem/fix with floating point that start with 0
- \* Ray also fixed problem that (int.class) was not recognized.
- \* Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
- \* TJP fixed CHAR\_LITERAL analogously.
- \* Version 1.21.2 (March, 2003)
- \* Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
- \* Notes:
- \* o We only allow the "extends" keyword and not the "implements"
- \* keyword, since that's what JSR14 seems to imply.
- \* o Thanks to Monty Zukowski for his help on the antlr-interest
- \* mail list.

- \* o Thanks to Alan Eliassen for testing the grammar over his
- \* Fink source base
- \*
- \* Version 1.22 (July, 2004)
- \* Changes by Michael Studman to support Java 1.5 language extensions
- \* Notes:
- \* o Added support for annotations types
- \* o Finished off Matt Quail's generics
- enhancements to support bound type arguments
- \* o Added support for new for statement syntax
- \* o Added support for static import syntax
- \* o Added support for enum types
- \* o Tested against JDK 1.5 source base and source base of jdigraph project
- \* o Thanks to Matt Quail for doing the hard part by doing most of the generics work
- \*
- \* Version 1.22.1 (July 28, 2004)
- \* Bug/omission fixes for Java 1.5 language support
- \* o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for
- \* spotting this
- \* o Fixed bug where incorrect handling of SR and BSR tokens would cause type
- \* parameters to be recognised as type arguments.
- \* o Enabled type parameters on constructors, annotations on enum constants
- \* and package definitions
- \* o Fixed problems when parsing `if ((char.class.equals(c))) {}` - solution by Matt Quail at Cenqua
- \*
- \* Version 1.22.2 (July 28, 2004)
- \* Slight refactoring of Java 1.5 language support
- \* o Refactored for/"foreach" productions so that original literal "for" literal
- \* is still used but the for sub-clauses vary by token type
- \* o Fixed bug where type parameter was not included in generic constructor's branch of AST
- \*
- \* Version 1.22.3 (August 26, 2004)
- \* Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
- \* and other refactorings
- \* o Fixed typeParameters omission in identPrimary and newStatement
- \* o Replaced GT reconciliation code with simple semantic predicate
- \* o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
- \* o Refactored typeDefinition production and field productions to reduce duplication
- \*
- \* Version 1.22.4 (October 21, 2004)
- \* Small bux fixes
- \* o Added typeArguments to explicitConstructorInvocation, e.g. `new <String>MyParameterised()`
- \* o Added typeArguments to postfixExpression
- productions for anonymous inner class super
- \* constructor invocation, e.g. `new Outer().<String>super()`
- \* o Fixed bug in array declarations identified by Geoff Roy
- \*
- \* Version 1.22.4.g.1



- \* o I have taken java.g for Java 1.5 from Michael Studman (1.22.4)
- \* and have applied the groovy.diff from java.g (1.22) by John Rose
- \* back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)
- \*
- \* Version 1.22.4.g.2
- \* o mkempf, rkleeb, Dec 2007
- \* o fixed various rules so that they call the correct Create Method
- \* to make sure that the line information are correct
- \*
- \* Based on an original grammar released in the PUBLIC DOMAIN
- \*/

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jar/org/codehaus/groovy/control/AnnotationConstantsVisitor.java
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jar/org/codehaus/groovy/transform/tailrec/TernaryToIfStatementConverter.groovy
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* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
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* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
jar/groovy/lang/MissingClassException.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
jar/org/codehaus/groovy/control/io/FileReaderSource.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
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* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
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/opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
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* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
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* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
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* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
jar/org/codehaus/groovy/antlr/SourceBuffer.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
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* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
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\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/runtime/callsite/BooleanClosureWrapper.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/runtime/memoize/MemoizeCache.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/transform/stc/GroovyTypeCheckingExtensionSupport.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-

jar/org/codehaus/groovy/syntax/Token.java  
\*  
/opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/runtime/ConversionHandler.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
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\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/io/FileType.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/lang/TracingInterceptor.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/groovy/transform/WithWriteLock.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/control/customizers/builder/SourceAwareCustomizerFactory.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/runtime/ReverseListIterator.java  
\*  
/opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/transform/ASTTest.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/antlr/treewalker/NodePrinter.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/runtime/callsite/ClassMetaClassGetPropertySite.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
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\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
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\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/control/ConfigurationException.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/vmplugin/v7/IndyGuardsFiltersAndSignatures.java  
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/opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
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\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/runtime/callsite/AbstractCallSite.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/groovy/util/PermutationGenerator.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/ast/builder/AstBuilderTransformation.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/runtime/memoize/Memoize.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/lang/Sequence.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/util/logging/Log4j.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/reflection/stdclasses/CharacterCachedClass.java  
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/opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/groovy/transform/PackageScopeTarget.java  
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 jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ShortArrayPutAtMetaMethod.java  
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 jar/org/codehaus/groovy/reflection/GeneratedMetaMethod.java  
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 jar/groovy/util/FactoryBuilderSupport.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/control/SourceUnit.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/antlr/UnicodeEscapingReader.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/control/messages/ExceptionMessage.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/groovy/beans/DefaultPropertyWriter.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/groovy/transform/options/DefaultPropertyHandler.java  
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 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/ast/decompiled/Annotations.java  
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 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-

jar/org/codehaus/groovy/runtime/callsite/DummyCallSite.java  
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/opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/GroovyException.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/apache/groovy/plugin/DefaultRunners.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/groovy/lang/DeprecationException.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/runtime/metaclass/MissingMethodExceptionNoStack.java  
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\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/classgen/genDgmMath.groovy  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/runtime/m12n/ExtensionModule.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/runtime/wrappers/DoubleWrapper.java  
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/opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/time/TimeDuration.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/classgen/ClassGenerator.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/lang/ExpandoMetaClass.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
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\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
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\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/control/StaticImportVisitor.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/util/SingleKeyHashMap.java  
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/opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/lang/Range.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/reflection/CachedMethod.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/apache/groovy/internal/util/Function.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
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\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/ast/expr/MethodPointerExpression.java  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/cli/OptionField.groovy  
\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
jar/org/codehaus/groovy/tools/FileSystemCompiler.java  
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/opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
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 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
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 jar/groovy/lang/MetaArrayLengthProperty.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesStatementWriter.java  
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 jar/org/codehaus/groovy/ast/stmt/BreakStatement.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
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 jar/org/codehaus/groovy/control/io/AbstractReaderSource.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/tools/shell/util/Preferences.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/transform/Canonical.groovy  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
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 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
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 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/util/OrderBy.java  
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 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/transform/sc/transformers/CompareToNullExpression.java  
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 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/lang/PropertyAccessInterceptor.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/transform/CompilationUnitAware.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/runtime/metaclass/ClosureMetaMethod.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/runtime/callsite/MetaClassConstructorSite.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/classgen/genArrayUtil.groovy  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesClosureWriter.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/transform/tailrec/ReturnAdderForClosures.groovy  
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/opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/util/logging/Commons.java  
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 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/lang/MetaClassRegistry.java  
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 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/control/ProcessingUnit.java  
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 /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/transform/stc/SignatureCodec.java  
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 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/lang/GroovyResourceLoader.java  
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\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/transform/sc/transformers/ConstructorCallTransformer.java  
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\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/runtime/typehandling/ShortTypeHandling.java  
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* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/time/TimeCategory.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
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jar/groovy/lang/IllegalPropertyAccessException.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
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* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
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* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
jar/org/codehaus/groovy/transform/sc/transformers/CastExpressionOptimizer.java
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* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
jar/org/codehaus/groovy/runtime/ml2n/MetaInfExtensionModule.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
jar/org/codehaus/groovy/runtime/dgmimpl/NumberNumberPlus.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
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* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
jar/org/codehaus/groovy/runtime/ReflectionMethodInvoker.java
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jar/org/apache/groovy/internal/util/Predicate.java
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/opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
jar/org/codehaus/groovy/classgen/BytecodeInstruction.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
jar/groovy/transform/builder/SimpleStrategy.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
jar/org/codehaus/groovy/antlr/java/PreJava2GroovyConverter.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
jar/org/codehaus/groovy/reflection/CacheAccessControlException.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
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* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
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* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/lang/ObjectRange.java
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\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/LongArrayGetAtMetaMethod.java  
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\* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/control/SourceExtensionHandler.java  
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jar/org/codehaus/groovy/classgen/InnerClassVisitor.java
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 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/io/FileVisitResult.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/ast/stmt/EmptyStatement.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/util/ManagedConcurrentMap.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/apache/groovy/internal/util/Supplier.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/ast/InterfaceHelperClassNode.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/groovy/transform/AnnotationCollector.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/lang/GroovyShell.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/classgen/InnerClassVisitorHelper.java  
 \*  
 /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/control/customizers/builder/CompilerCustomizationBuilder.groovy  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/antlr/ASTParserException.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/ast/expr/MapExpression.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/vmplugin/v6/Java6.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/runtime/metaclass/MethodMetaProperty.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/runtime/ScriptReference.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/apache/groovy/internal/util/UnicodeConst.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ByteArrayGetAtMetaMethod.java  
 \*  
 /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/transform/stc/ExtensionMethodNode.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/groovy/lang/IncorrectClosureArgumentsException.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/classgen/asm/BinaryLongExpressionHelper.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/tools/gse/StringSetMap.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/util/StringUtil.groovy  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/util/TripleKeyHashMap.java  
 \* /opt/cola/permits/1117959935\_1608241707.15/0/groovy-2-5-14-sources-  
 jar/org/codehaus/groovy/runtime/NumberAwareComparator.java



```
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
jar/org/codehaus/groovy/reflection/stdclasses/BooleanCachedClass.java
*
/opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
jar/org/codehaus/groovy/classgen/asm/BytecodeVariable.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
jar/org/codehaus/groovy/control/InstanceOfVerifier.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
jar/org/codehaus/groovy/runtime/dgmimpl/NumberNumberMetaMethod.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
jar/org/codehaus/groovy/vmplugin/v5/PluginDefaultGroovyMethods.java
No license file was found, but licenses were detected in source scan.
```

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```

```
# global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation
```

```
#global transformation for AST Builder
org.codehaus.groovy.ast.builder.AstBuilderTransformation
```

```
Found
in path(s):
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/META-
INF/services/org.codehaus.groovy.transform.ASTTransformation
No license file was found, but licenses were detected in source scan.
```

```
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- \*/

Found in path(s):

```
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
jar/org/apache/groovy/util/concurrentlinkedhashmap/package-info.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-
jar/org/apache/groovy/util/concurrentlinkedhashmap/LinkedDeque.java
```

## 1.343 aop-alliance 1.0

### 1.343.1 Available under license :

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## 1.344 jackson 2.11.3

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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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necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

## 1.346 from2 2.3.0

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## 1.347 cli-table3 0.5.1

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## 1.349 cron 3.0pl1-136ubuntu1

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*/
```

\$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp \$

Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows \_PATH\_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.



you should check this out.

say:

make all

su and say:

make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created.

Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
```

```
crontab -u news -r /usr/lib/news/crontab.src
```

```
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have

no effect until

they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to

be stuck on a AT&T UNIX,

you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/INSTALL

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\*/

Found in path(s):

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.c

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/entry.c

\*

/opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/misc.c

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/config.h

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/job.c

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/database.c

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/env.c

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.h

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/user.c

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.c

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.c

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/do\_command.c

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\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/popen.c  
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\*  
\* @(#)bitstring.h 5.2  
(Berkeley) 4/4/90  
\*/

Found in path(s):

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/bitstring.h  
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.\" */
.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"
```

Found in path(s):

\*

/opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.5

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.\" * Paul Vixie    <paul@vix.com>    uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"
```

Found in path(s):

\*

/opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.1

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.\" @(#)bitstring.3 5.1
.\" (Berkeley) 12/13/89
.\"
```

Found in path(s):

```
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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

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```
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*/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.8
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# * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
# */
```

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta

was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h  
Edit Makefile  
(both of these files have instructions inside; note that  
some things in config.h are definable in Makefile and are  
therefore surrounded by #ifndef...#endif)  
'make'  
'su' and 'make install'  
(you may have to install the man pages by hand)  
kill your existing cron process  
(actually you can run your existing cron if you want, but why?)  
build new crontabs using /usr/lib/{crontab,crontab.local}  
(either put them all in "root"'s crontab, or divide it up  
and rip out all the 'su' commands, collapse the lengthy  
lists into  
ranges with steps -- basically, this step is  
as much work as you want to make it)  
start up the new cron  
(must be done as root)  
watch it. test it with 'crontab -r' and watch the daemon track your  
changes.  
if you like it, change your /etc/{rc,rc.local} to use it instead of  
the old one.

\$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp \$

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\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/README

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* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

Found in path(s):

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.h

```
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/pathnames.h
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/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/externs.h
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```

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Version 2.1, February 1999

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## 1.351 diffutils 3.7-3

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Version 3, 29 June 2007

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## 1.353 Isb 11.1.0ubuntu2

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## 1.362 asm 5.0.3

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\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-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/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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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.

\*/

Found in path(s):

\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
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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/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
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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>.
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/
```

Found in path(s):

```
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
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```

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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.
 */

```

Found in path(s):

```

* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/ClassNode.java

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\*/

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\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXClassAdapter.java  
\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXAdapter.java  
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/opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXCodeAdapter.java  
\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/ASMContentHandler.java  
\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXFieldAdapter.java  
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jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Handler.java
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jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
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/opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/FieldNode.java
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jar/org/objectweb/asm/signature/SignatureVisitor.java
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jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/InsnNode.java

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\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-  
jar/org/apache/commons/logging/LogFactory.java

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```
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Log4JLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/LogFactoryImpl.java
*
/opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/LogSource.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/LogKitLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/Log.java
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```
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/ServletContextCleaner.java
```

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# 1.367 isorelax 20090621

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```

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```
* /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1-
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```

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```
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Found in path(s):

\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/web/Viewer.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtPrimitiveType.java  
\*  
/opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-  
jar/javassist/bytecode/MethodInfo.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-  
jar/javassist/compiler/AccessorMaker.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/Lex.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-  
jar/javassist/bytecode/analysis/Executor.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-  
jar/javassist/ByteArrayClassPath.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-  
jar/javassist/compiler/ast/Symbol.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Pair.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-  
jar/javassist/bytecode/LocalVariableTypeAttribute.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-  
jar/javassist/bytecode/analysis/MultiArrayType.java  
\*  
/opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-  
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\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-  
jar/javassist/tools/rmi/AppletServer.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/MethodCall.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-  
jar/javassist/bytecode/stackmap/MapMaker.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-  
jar/javassist/bytecode/StackMapTable.java  
\*

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/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/Loader.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/Javac.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CodeConverter.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/Translator.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
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jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/NotFoundException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/Variable.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/DeprecatedAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/ASTList.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/AssignExpr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/Expr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/ConstPool.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/ProxyFactory.java
*

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/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/MethodDecl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/TokenId.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/MemberResolver.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtClassType.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/Declarator.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/NoSuchClassError.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewMethod.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewConstructor.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/ControlFlow.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/rmi/RemoteRef.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/Proxy.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/StringL.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/Descriptor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/reflect/Metaobject.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/CodeGen.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/Frame.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewClass.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/ProxyObject.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/stackmap/TypeTag.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/SubroutineScanner.java
*

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/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtMember.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/expr/ConstructorCall.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/scopedpool/SoftValueHashMap.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/ParameterAnnotationsAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/runtime/DotClass.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/IntQueue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassPool.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/URLClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/SyntheticAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/ExprEditor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ProceedHandler.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/convert/TransformNew.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/convert/TransformAccessArrayField.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/AttributeInfo.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/Subroutine.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtField.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/DefinePackageHelper.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/LineNumberAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Expr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/ClassFile.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/Modifier.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/SyntaxError.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/framedump.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/ByteStream.java

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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/web/BadHttpRequest.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/stackmap/BasicBlock.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/convert/TransformCall.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/SignatureAttribute.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/Callback.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/reflect/CannotCreateException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/JvstCodeGen.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/runtime/Cflow.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/BadBytecode.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/stackmap/TypeData.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/AnnotationsAttribute.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/MethodFilter.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/DuplicateMemberException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/NestHostAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/scopedpool/ScopedClassPool.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassPoolTail.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/HotSwapper.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/convert/TransformNewClass.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/SourceFileAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/SecurityActions.java

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\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/TypeChecker.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassMap.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/FieldDecl.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/LongVector.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/web/Webserver.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtMethod.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ClassFileWriter.java  
 \*  
 /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Stmnt.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/Sample.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/RuntimeSupport.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/SerializedProxy.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/HotSwapAgent.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/Parser.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/NewArray.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/IntConst.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/Reflection.java  
 \*  
 /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/MemberCodeGen.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/ObjectImporter.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/scopedpool/ScopedClassPoolRepository.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/Transformer.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/Cast.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/CannotInvokeException.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ConstantAttribute.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformWriteField.java  
 \*  
 /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtBehavior.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/SymbolTable.java

\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/MultiType.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/stackmap/TypedBlock.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Keyword.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/stackmap/Tracer.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Member.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/NewExpr.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/runtime/Desc.java  
 \*  
 /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewWrappedConstructor.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/FactoryHelper.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/NewExpr.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtConstructor.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/ObjectNotFoundException.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/Mnemonic.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/CastExpr.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/EnclosingMethodAttribute.java  
 \*  
 /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtArray.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/CompileError.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/FramePrinter.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CannotCompileException.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformAfter.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/Analyzer.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ExceptionTable.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/StubGenerator.java  
 \* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/DoubleConst.java  
 \*



/opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/CodeAnalyzer.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/BinExpr.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/Util.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/Proxy.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/Type.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewWrappedMethod.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/ProxyObjectInputStream.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/KeywordTable.java  
\*  
/opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/NestMembersAttribute.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/InstructionPrinter.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/LocalVariableAttribute.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/CannotReflectException.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/CallExpr.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/Compiler.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/Dump.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/CodeIterator.java  
\*  
/opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/Instanceof.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/AnnotationDefaultAttribute.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/runtime/Inner.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/scopedpool/ScopedClassPoolFactory.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/Opcode.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/Loader.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/Handler.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtClass.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/InstanceOfExpr.java  
\*  
/opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/SerialVersionUID.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/FieldAccess.java

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/*
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 */
```

Found in path(s):

```
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/ByteMemberValue.java
*
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
*
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
```

jar/javassist/bytecode/annotation/Annotation.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-  
jar/javassist/bytecode/annotation/ArrayMemberValue.java  
\* /opt/cola/permits/1135869399\_1613618193.6/0/javassist-3-25-0-ga-sources-3-  
jar/javassist/bytecode/annotation/DoubleMemberValue.java

# 1.373 jakarta-annotation-api 1.3.5

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

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## 1.374 commons-logging 1.1.3

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# 1.375 jakarta-validation-api 2.0.2

## 1.375.1 Available under license :

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 * Jakarta Bean Validation API
 *
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 */
```

Found in path(s):

```
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/Validator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintTarget.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/FutureOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Null.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintValidatorContext.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ExecutableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/groups/Default.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/MessageInterpolator.java
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jar/javax/validation/metadata/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/Unwrapping.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/ValueExtractor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraintvalidation/ValidationTarget.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/MethodDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/UnexpectedTypeException.java
```

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/BeanDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Digits.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/UnwrapByDefault.java  
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\*  
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\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ValidateUnwrappedValue.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/SupportedValidationTarget.java  
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\*  
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\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/GenericBootstrap.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodType.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractorDeclarationException.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ConstructorDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/package-info.java  
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jar/javax/validation/valueextraction/package-info.java  
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\*  
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jar/javax/validation/GroupDefinitionException.java  
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\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/NoProviderFoundException.java  
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\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
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\*  
/opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/PastOrPresent.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintViolationException.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/package-info.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/TraversableResolver.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ExecutableValidator.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidationProviderResolver.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorFactory.java  
\*  
/opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ContainerDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ConstraintDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ParameterDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotNull.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/package-info.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/GroupSequence.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Negative.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorFactory.java  
\*  
/opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidationException.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/OverridesAttribute.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/BootstrapState.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-

```
jar/javax/validation/constraints/Email.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintDeclarationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/PropertyDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintValidator.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/executable/ExecutableType.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/AssertFalse.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Future.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/DecimalMax.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Positive.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/NotEmpty.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/spi/ConfigurationState.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/Payload.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/DecimalMin.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Past.java
No license file was found, but licenses were detected in source scan.
```

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~

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<![CDATA[

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Found in path(s):

```
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/META-
INF/maven/jakarta.validation/jakarta.validation-api/pom.xml
```

# 1.376 jakarta-ws-rs-api 2.1.6

## 1.376.1 Available under license :

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\* Source: <https://github.com/mockito/mockito/releases/tag/v2.16.0>

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## 1.382 osgi-core 6.0.0

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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.  
\*/

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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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\*

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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}).

\*/

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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>.
 */

```

Found in path(s):

```

* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

```

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\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/commons/Remapper.java  
\*  
/opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/InsnNode.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/TypeInsnNode.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/AnnotationWriter.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/analysis/Value.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/commons/StaticInitMerger.java  
\*  
/opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/LdcInsnNode.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/optimizer/Constant.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/CheckSignatureAdapter.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/Item.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/CheckFieldAdapter.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/Opcodes.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/FieldInsnNode.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/MethodWriter.java  
\*

/opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/commons/LocalVariablesSorter.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/Attribute.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/TryCatchBlockNode.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/commons/InstructionAdapter.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/Label.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/VarInsnNode.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/optimizer/MethodOptimizer.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java  
\*  
/opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/LocalVariableNode.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/optimizer/ConstantPool.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/optimizer/Shrinker.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/AbstractInsnNode.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/ClassVisitor.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/optimizer/NameMapping.java  
\*  
/opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/CheckMethodAdapter.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/Frame.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/commons/SimpleRemapper.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/ClassWriter.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/analysis/SmallSet.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/TraceSignatureVisitor.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/analysis/Frame.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java

\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java  
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/opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/IncInsnNode.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/FieldWriter.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/signature/SignatureVisitor.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/Type.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/FieldVisitor.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/ByteVector.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/AnnotationVisitor.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/FrameNode.java  
\*  
/opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/commons/RemappingClassAdapter.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/AnnotationNode.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/FieldNode.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/InnerClassNode.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/commons/TableSwitchGenerator.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/Handler.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/Edge.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/MethodVisitor.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/MethodInsnNode.java  
\*  
/opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/analysis/Interpreter.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/ClassReader.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/CheckClassAdapter.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/LineNumberNode.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/analysis/BasicValue.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/Printer.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/analysis/Subroutine.java  
\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/signature/SignatureWriter.java  
\*

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/opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-
jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/LabelNode.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-
jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/InsnList.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-
jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-
jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-
jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
*
/opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-
jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-
jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-
jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-
jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-
jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-
jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-
jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
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\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/Textifiable.java  
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\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/commons/AdviceAdapter.java

\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/TraceMethodVisitor.java

\*

/opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/TraceClassVisitor.java

\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/analysis/Analyzer.java

\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/optimizer/ClassOptimizer.java

\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/MethodNode.java

\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/ASMifier.java

\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/TraceFieldVisitor.java

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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 `null`.

\*/

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\* /opt/cola/permits/1135953346\_1613641379.03/0/asm-4-0-sources-1-  
jar/org/objectweb/asm/commons/AnalyzerAdapter.java

# 1.384 commons-cli 1.3.1

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- \*
- /opt/cola/permits/1136044940\_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/converters/StringConverter.java
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\* /opt/cola/permits/1136044940\_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/IStringConverter.java  
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* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-  
jar/com/beust/jcommander/IPParameterValidator2.java  
*  
/opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-  
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* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-  
jar/com/beust/jcommander/validators/NoValueValidator.java  
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-  
jar/com/beust/jcommander/validators/NoValidator.java
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## 1.387 cliui 5.0.0

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## 1.393 hk2-api 2.6.1

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# 1.395 jakarta-inject 2.6.1

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[This is the first released version of the library GPL. It is  
numbered 2 because it goes with version 2 of the ordinary GPL.]

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License

treats it as such.

Because

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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included without limitation in the term "modification".)

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or

table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the

Library into a program that is not a library.

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year>  
<name of author>
```

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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary.

Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

That's all there is to it!

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps:

(1)

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run

modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

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public, and in some countries other activities as well.

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#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The

"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for

the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the

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# 1.397 joda-time 2.10.2

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\*/

Found in path(s):

\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/tools/debugger/treetable/AbstractCellEditor.java  
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```
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/v8dtoa/FastDtoa.java
```

```
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/v8dtoa/CachedPowers.java
```

```
*
```

```
/opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/v8dtoa/DiyFp.java
```

```
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/v8dtoa/DoubleHelper.java
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* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
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```

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```
/*
```

```
* @(#)TreeTableModelAdapter.java 1.2 98/10/27
```

```
*
```

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```

```
*
```

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\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
 jar/org/mozilla/javascript/tools/debugger/treetable/TreeTableModelAdapter.java  
 No license file was found, but licenses were detected in source scan.

/\* -\*- Mode: java; tab-width: 8; indent-tabs-mode: nil; c-basic-offset: 4 -\*-

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 \* License, v. 2.0. If a copy of the MPL was not distributed with this  
 \* file, You can obtain one at <http://mozilla.org/MPL/2.0/>. \*/  
 /\*\*

\* 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/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/ast/IdeErrorReporter.java
```

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```
/* -*- Mode: java; tab-width: 8; indent-tabs-mode: nil; c-basic-offset: 4 -*-
```

```
*/
```

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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/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/ContextFactory.java
```

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```
/* -*- Mode: java; tab-width: 8; indent-tabs-mode: nil; c-basic-offset: 4 -*-
```

```
*/
```

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```

Found in path(s):

```
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/debug/DebuggableObject.java
```

```
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/ast/NewExpression.java
```

```
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/regexp/SubString.java
```

```
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
```

jar/org/mozilla/javascript/typedarrays/NativeInt8Array.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/NativeJavaConstructor.java  
\*  
/opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/xml/XMLObject.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/typedarrays/NativeArrayBuffer.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/ClassShutter.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/ast/RegExpLiteral.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/Function.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/InterfaceAdapter.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/tools/debugger/SwingGui.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/ast/WithStatement.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/ast/VariableInitializer.java  
\*  
/opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/ast/XmlElemRef.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/RhinoException.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/JavaAdapter.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/xml/XMLLib.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/tools/shell/JavaPolicySecurity.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/xmlimpl/XMLCtor.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/NativeGlobal.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/RefCallable.java  
\*  
/opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/NativeSymbol.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/tools/shell/SecurityProxy.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/DefaultErrorReporter.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/NodeTransformer.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-

```

jar/org/mozilla/javascript/ast/ForLoop.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/tools/debugger/Dim.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/serialize/ScriptableOutputStream.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/ast/XmlMemberGet.java
*
/opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/debug/Debugger.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/ast/XmlExpression.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/IRFactory.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/ast/Scope.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/ast/XmlLiteral.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/ast/Block.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/xmlimpl/XML.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/tools/shell/ConsoleTextArea.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/tools/debugger/GuiCallback.java
*
/opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/ast/LetNode.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/regexp/NativeRegExpCtor.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/tools/shell/JSConsole.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/ast/UnaryExpression.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/ast/ExpressionStatement.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/ScriptableObject.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/NativeCall.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/ast/Comment.java
*
/opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/tools/shell/Global.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/NativeJavaObject.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/FunctionObject.java

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\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/tools/shell/Main.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/ast/TryStatement.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/ast/LabeledStatement.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/ast/IfStatement.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/ast/ForInLoop.java  
 \*  
 /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/ast/ArrayLiteral.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/ast/ArrayComprehension.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/ast/WhileLoop.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/TokenStream.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/NativeBoolean.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/jdk13/VMBridge\_jdk13.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/ast/XmlRef.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/WrappedException.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/Wrapper.java  
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 /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/ast/Jump.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/ast/EmptyExpression.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/Parser.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/ast/NodeVisitor.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/Kit.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/ast/PropertyGet.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/ArrowFunction.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/ast/AstNode.java  
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 /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/WrapFactory.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/tools/shell/ShellLine.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-

jar/org/mozilla/javascript/ScriptRuntimeES6.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/ast/DoLoop.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/classfile/ByteCode.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/ast/BreakStatement.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/serialize/ScriptableInputStream.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/BaseFunction.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/ErrorReporter.java  
\*  
/opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/xmlimpl/XMLName.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/Scriptable.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/ast/ThrowStatement.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/Callable.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/JavaScriptException.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/xmlimpl/QName.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/Delegator.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/ast/Name.java  
\*  
/opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/SecurityController.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/ast/EmptyStatement.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/ast/Assignment.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/ImporterTopLevel.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/v8dtoa/FastDtoaBuilder.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/ast/KeywordLiteral.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/typedarrays/NativeArrayBufferView.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/VMBridge.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
jar/org/mozilla/javascript/RegExpProxy.java  
\*  
/opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/Undefined.java  
\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-

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jar/org/mozilla/javascript/LazilyLoadedCtor.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
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* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
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* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
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* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
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* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/typedarrays/NativeInt32Array.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/ast/ErrorCollector.java
*
/opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/Decompiler.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/SymbolScriptable.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/xmlimpl/XMLWithScope.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/UintMap.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
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* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
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/opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
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* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/Ref.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/regexp/RegExpImpl.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/EvaluatorException.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/NativeJavaTopPackage.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/NativeArray.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/debug/DebugFrame.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
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jar/org/mozilla/javascript/typedarrays/NativeUint8ClampedArray.java

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\* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
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 jar/org/mozilla/javascript/ContextListener.java  
 \* /opt/cola/permits/1136701711\_1613864192.24/0/rhino-1-7-7-2-sources-3-  
 jar/org/mozilla/javascript/NativeContinuation.java

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* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
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* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-jar/org/mozilla/javascript/Evaluator.java
No license file was found, but licenses were detected in source scan.
```

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/* This Source Code Form is subject to the terms of the Mozilla Public
* License, v. 2.0. If a copy of the MPL was not distributed with this
* file, You can obtain one at http://mozilla.org/MPL/2.0/. */
```

Found in path(s):

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* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/optimizer/OptTransformer.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/commonjs/module/provider/SoftCachingModuleScriptProvider.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/xmlimpl/XmlNode.java
```

```

*
/opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/commonjs/module/provider/MultiModuleScriptProvider.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/commonjs/module/provider/UrlModuleSourceProvider.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/PolicySecurityController.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/xmlimpl/XmlProcessor.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/commonjs/module/provider/ParsedContentType.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/SecureCaller.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/commonjs/module/provider/CachingModuleScriptProviderBase.java
*
/opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/annotations/JSFunction.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/commonjs/module/Require.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/ScriptStackElement.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/commonjs/module/provider/ModuleSource.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/commonjs/module/provider/DefaultURLConnectionExpiryCalculator.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/commonjs/module/provider/ModuleSourceProvider.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/optimizer/Optimizer.java
*
/opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/DefiningClassLoader.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/commonjs/module/ModuleScriptProvider.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/commonjs/module/provider/ModuleSourceProviderBase.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/StackStyle.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/annotations/JSConstructor.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/tools/SourceReader.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/commonjs/module/ModuleScope.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/optimizer/OptFunctionNode.java
*

```

```
/opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/commonjs/module/ModuleScript.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/tools/jsc/Main.java
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/annotations/JSGetter.java
```

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```
/*
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```
* @(#)JTreeTable.java 1.2 98/10/27
```

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```

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*/
```

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```
* /opt/cola/permits/1136701711_1613864192.24/0/rhino-1-7-7-2-sources-3-
jar/org/mozilla/javascript/tools/debugger/treetable/JTreeTable.java
```

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*/

/* checkTag : validation tool for libzstd
* command :
* $ ./checkTag tag
* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}
* The tag is then compared to zstd version number.
* They are compatible if first 3 digits are identical.
* Anything beyond that is free, and doesn't impact validation.
* Example : tag v1.8.1.2 is compatible with version 1.8.1
* When tag and version are not compatible, program exits with error code 1.
* When they are compatible, it exists with a code 0.
* checkTag is intended to be used in automated testing environment.
*/

```

## 1.411 libtasn 4.16.0-2

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# 1.420 reindex-client 7.10.2

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## 1.423 scala-reflect 2.12.7

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```
/** The entry point into Scala runtime reflection.
```

```
*
```

```
* To use Scala runtime reflection, simply use or import `scala.reflect.runtime.universe._`
```

```
*
```

```
* See [[scala.reflect.api.Universe]] or the
```

```
* [[http://docs.scala-lang.org/overviews/reflection/environment-universes-mirrors.html Reflection Guide:
```

```
Universes]]
```

```
* for more details.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1148119227_1661245068.9201708/0/scala-reflect-2-12-7-sources-1-jar/scala/reflect/runtime/package.scala
```

## 1.424 aws4 1.11.0

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\*

/opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-  
jar/io/jaegertracing/internal/exceptions/UnsupportedFormatException.java

\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-  
jar/io/jaegertracing/internal/samplers/SamplingStatus.java

\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-  
jar/io/jaegertracing/internal/exceptions/EmptyIpException.java

\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-  
jar/io/jaegertracing/internal/exceptions/SamplingStrategyErrorException.java

\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Extractor.java

\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-  
jar/io/jaegertracing/internal/samplers/RemoteControlledSampler.java

\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-  
jar/io/jaegertracing/internal/reporters/NoopReporter.java

\*

/opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-  
jar/io/jaegertracing/internal/LogData.java

\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-  
jar/io/jaegertracing/internal/metrics/Metric.java

\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-

```

jar/io/jaegertracing/internal/exceptions/MalformedTracerStateStringException.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/http/SamplingStrategyResponse.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Injector.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/http/ProbabilisticSamplingStrategy.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/metrics/Gauge.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/metrics/Tag.java
*
/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/HttpSamplingManager.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/http/PerOperationSamplingParameters.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/reporters/InMemoryReporter.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/PerOperationSampler.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/spi/SamplingManager.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/propagation/PrefixedKeys.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/utils/Utils.java
*
/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/reporters/CompositeReporter.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Sampler.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/GuaranteedThroughputSampler.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Reporter.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/metrics/Timer.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/metrics/Counter.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/http/OperationSamplingParameters.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/reporters/LoggingReporter.java
*
/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/Constants.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/http/RateLimitingSamplingStrategy.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Sender.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/metrics/Metrics.java

```

\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/clock/SystemClock.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/ProbabilisticSampler.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/clock/Clock.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/exceptions/EmptyTracerStateStringException.java  
\*  
/opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/exceptions/SenderException.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/utils/RateLimiter.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/exceptions/NotFourOctetsException.java  
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\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/propagation/B3TextMapCodec.java  
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- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/senders/NoopSenderFactory.java
- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/exceptions/TraceIdOutOfBoundException.java
- \*
- /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/JaegerObjectFactory.java
- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/senders/NoopSender.java
- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/SenderFactory.java
- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/PropagationRegistry.java
- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/senders/SenderResolver.java

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- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/propagation/TraceContextCodec.java

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\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/JaegerSpan.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/JaegerTracer.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/propagation/TextMapCodec.java  
\*  
/opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/Configuration.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/JaegerSpanContext.java  
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\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/clock/MillisAccurateClock.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/MDCScopeManager.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-



# 1.429 scala-compiler 2.12.7

## 1.429.1 Available under license :

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```
/*!  
* jQuery Mousewheel 3.1.13  
*  
* Copyright 2015 jQuery Foundation and other contributors  
* Released under the MIT license.  
* http://jquery.org/license  
*/
```

Found in path(s):

```
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-  
jar/scala/tools/nsc/doc/html/resource/lib/jquery.mousewheel.min.js
```

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

```
/**  
* @license jquery.panzoom.js v2.0.5  
* Updated: Thu Jul 03 2014  
* Add pan and zoom functionality to any element  
* Copyright (c) 2014 timmy willison  
* Released under the MIT license  
* https://github.com/timmywil/jquery.panzoom/blob/master/MIT-License.txt  
*/
```

Found in path(s):

```
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-  
jar/scala/tools/nsc/doc/html/resource/lib/jquery.panzoom.min.js
```

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rem # This is free software; see the distribution for copying conditions.

Found in path(s):

```
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-  
jar/scala/tools/ant/templates/tool-windows.tmpl
```

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```
/** <p>  
* Post-attribution checking and transformation.  
* </p>  
* <p>  
* This phase performs the following checks.  
* </p>
```

```

* <ul>
* <li>All overrides conform to rules.</li>
* <li>All type arguments conform to bounds.</li>
* <li>All type variable uses conform to variance annotations.</li>
* <li>No forward reference to a term symbol extends beyond a value definition.</li>
* </ul>
* <p>
* It performs the following transformations.
* </p>
* <ul>
* <li>Local modules are replaced by variables and classes</li>
* <li>Calls to case factory methods are replaced by new's.</li>
* <li>Eliminate branches in a conditional if the condition is a constant</li>
* </ul>
*
* @author Martin Odersky
* @version 1.0
*
* @todo Check whether we always check type parameter bounds.
*/

```

Found in path(s):

```

* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/nsc/typechecker/RefChecks.scala

```

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```

/*
* Copyright (c) 2014 Contributor. All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/nsc/classpath/ZipAndJarFileLookupFactory.scala
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/nsc/classpath/AggregateClassPath.scala
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/nsc/classpath/PackageNameUtils.scala
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/nsc/classpath/ClassPathFactory.scala
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/nsc/classpath/DirectoryClassPath.scala
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/nsc/classpath/FileUtils.scala
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/nsc/classpath/ClassPath.scala
*

```

```

/opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/nsc/classpath/ZipArchiveFileLookup.scala

```

```
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-  
jar/scala/tools/nsc/ClassPathMemoryConsumptionTester.scala
```

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```
/** The main attribution phase.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-  
jar/scala/tools/nsc/typechecker/Analyzer.scala
```

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```
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```

Found in path(s):

```
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-  
jar/scala/tools/ant/templates/tool-unix.tmpl
```

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```
/*
```

```
* tools.tooltip 1.1.3 - Tooltips done right.
```

```
*
```

```
* Copyright (c) 2009 Tero Piirainen
```

```
* http://flowplayer.org/tools/tooltip.html
```

```
*
```

```
* Dual licensed under MIT and GPL 2+ licenses
```

```
* http://www.opensource.org/licenses
```

```
*
```

```
* Launch : November 2008
```

```
* Date: ${date}
```

```
* Revision: ${revision}
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-  
jar/scala/tools/nsc/doc/html/resource/lib/tools.tooltip.js
```

## 1.430 google-uuid v1.1.2

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## 1.431 elasticsearch 7.10.2

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[1] <http://www.ecma-international.org/publications/standards/Ecma-376.htm>

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```
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```
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[[java-rest-high-delete-license]]

=== Delete License

[[java-rest-high-delete-license-execution]]

==== Execution

The license can be deleted using the `deleteLicense()` method:

["source","java",subs="attributes,callouts,macros"]

-----  
include-tagged::{ doc-tests }/LicensingDocumentationIT.java[delete-license-execute]  
-----

[[java-rest-high-delete-license-response]]

==== Response

The returned `DeleteLicenseResponse` contains the `acknowledged` flag, which returns true if the request was processed by all nodes.

["source","java",subs="attributes,callouts,macros"]

-----  
include-tagged::{ doc-tests }/LicensingDocumentationIT.java[delete-license-response]  
-----

<1> Check the `acknowledge` flag. It should be true if license deletion is acknowledged.

[[java-rest-high-delete-license-async]]

==== Asynchronous Execution

This

request can be executed asynchronously:

["source","java",subs="attributes,callouts,macros"]

-----  
include-tagged::{ doc-tests }/LicensingDocumentationIT.java[delete-license-execute-async]  
-----

<1> The `DeleteLicenseRequest` to execute and the `ActionListener` to use when the execution completes

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `DeleteLicenseResponse` looks like:

["source","java",subs="attributes,callouts,macros"]

-----  
include-tagged::{ doc-tests }/LicensingDocumentationIT.java[delete-license-execute-listener]

-----  
<1> Called when the execution is successfully completed. The response  
is  
provided as an argument  
<2> Called in case of failure. The raised exception is provided as an argument  
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# Jackson JSON processor

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It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has  
been in development since 2007.

It is currently developed by a community of developers, as well as supported  
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[[java-rest-high-put-license]]

=== Update License

[[java-rest-high-put-license-execution]]

==== Execution

The license can be added or updated using the `putLicense()` method:

```
["source","java",subs="attributes,callouts,macros"]
```

```
-----  
include-tagged::{doc-tests}/LicensingDocumentationIT.java[put-license-execute]
```

```
-----  
<1> Set the categories of information to retrieve. The default is to  
return no information which is useful for checking if {xpack} is installed  
but not much else.
```

```
<2> A JSON document containing the license information.
```

[[java-rest-high-put-license-response]]

==== Response

The returned `PutLicenseResponse` contains the `LicensesStatus`, `acknowledged` flag and possible acknowledge messages. The acknowledge messages are present if you previously had a license with more features than one you are trying to update and you didn't set the `acknowledged` flag to `true`. In this case you need

to display the messages to the end user and if they agree, resubmit the license with the `acknowledge` flag set to `true`. Please note that the request will still return a 200 return code even if requires an acknowledgement. So, it is necessary to check the `acknowledged` flag.

```
["source","java",subs="attributes,callouts,macros"]
```

```
-----  
include-tagged::{doc-tests}/LicensingDocumentationIT.java[put-license-response]
```

```
-----  
<1> The status of the license
```

```
<2> Make sure that the license is valid.
```

```
<3> Check the acknowledge flag. It should be true if license is acknowledged.
```

<4> Otherwise we can see the acknowledge messages in `acknowledgeHeader()`  
<5> and check component-specific messages in `acknowledgeMessages()`.

```
[[java-rest-high-put-license-async]]  
==== Asynchronous Execution
```

This request can be executed asynchronously:

```
["source","java",subs="attributes,callouts,macros"]  
-----  
include-tagged::{doc-tests}/LicensingDocumentationIT.java[put-license-execute-async]  
-----
```

<1>

The `PutLicenseRequest` to execute and the `ActionListener` to use when the execution completes

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `PutLicenseResponse` looks like:

```
["source","java",subs="attributes,callouts,macros"]  
-----  
include-tagged::{doc-tests}/LicensingDocumentationIT.java[put-license-execute-listener]  
-----
```

<1> Called when the execution is successfully completed. The response is provided as an argument

<2> Called in case of failure. The raised exception is provided as an argument

Elasticsearch X-Pack

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java  
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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java  
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Nori Korean Morphological Analyzer - Apache Lucene Integration

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`analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt`,  
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`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  
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`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/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

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`Servlet-api.jar` and `javax.servlet-*.jar` are under the CDDL license, the original source code for this can be found at <http://www.eclipse.org/jetty/downloads.php>

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mecab-ipadic-2.7.0-20070801

which can be obtained from

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or

<http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz>

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OSXAdapter

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\*\*\*The art of simplicity is a puzzle of complexity.\*\*\*

## Overview ##

[YAML](<http://yaml.org>) is a data serialization format designed for human readability and interaction with scripting  
languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## ## SnakeYAML features ##

- \* a **complete** [YAML 1.1 processor](<http://yaml.org/spec/1.1/current.html>). In particular, SnakeYAML can parse all examples from the specification.
- \* Unicode support including UTF-8/UTF-16 input/output.
- \* high-level API for serializing and deserializing native Java objects.
- \* support for all types from the [YAML types repository](<http://yaml.org/type/index.html>).
- \* relatively sensible error messages.

## ## Info ##

- \* [Changes](<https://bitbucket.org/asomov/snakeyaml/wiki/Changes>)
- \* [Documentation](<https://bitbucket.org/asomov/snakeyaml/wiki/Documentation>)

## ## Contribute ##

- \* Mercurial DVCS is used to dance with the [source code](<https://bitbucket.org/asomov/snakeyaml/src>).
- \* If you find a bug in SnakeYAML, please [file a bug report](<https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open>).
- \* You may discuss SnakeYAML at [the mailing list](<http://groups.google.com/group/snakeyaml-core>).

---

teardown:

- do:

license.post:

acknowledge: true

body: |

```
{ "licenses": [ { "uid": "3aa62ffe-36e1-4fad-bfdc-9dff8301eb22", "type": "trial", "issue_date_in_millis": 1523456691721, "expiry_date_in_millis": 1838816691721, "max_nodes": 5, "issued_to": "customer", "issuer": "elasticsearch", "signature": "AAAABAAAAA2kWNcuc+DT0lrImYZKAAAIAo5/x6hrsGh1GqqrJmy4qgmEC7gK0U4zQ6q5ZEMhm4jAAABAEn6fG9y2VxKBu2T3D5hffh56kzOQODCOdhr0y2d17ZSIJMZRqO7ZywPCWNS1aR33GhfIHkTER0ysML0xMH/gXavhyRvMBndJj0UBKzuwpTawSlnxYtcqN8mSBIvJC7Ki+uJ1SpAILC2ZP9fnkRlqwXqBITwfYn7xnZgu9DKrOWru/ipTPObo7jceP18VTK6nWFen7/hCFDQTUFZ0jQvd+nq7A1PAcHGNxGfdbMVmAXCXgGWkRfT3clo9/vadgo+isNyh1sPq9mN7gwsvBAKtA1FrpH2EXYYbfOsSpBvUmhYMgErLg1k3/CbS0pCWLKOaX1xTMayosdZOjagU3auZXY=", "start_date_in_millis": 1 } ] }
```

---

"Installing enterprise license":

## current license version

- do:

license.post:

acknowledge: true

body: |

```
{ "license": { "uid": "6e57906b-a8d1-4c1f-acb7-73a16edc3934", "type": "enterprise", "issue_date_in_millis": 1523456691721, "expiry_date_in_millis": 1838816691721, "max_nodes": null, "max_resource_units": 50, "issued_to": "rest-test", "issuer": "elasticsearch", "signature": "AAAABQAAAA0sKPJdf9T6DItbXVJKAAAAIAo5/x6hrsGh1GqqrJmy4qgmEC7gK0U4zQ6q5ZEMhm4jAAABAKFCHrix7w/xPG14+wdhld1RmphDmXmHfL1xeuI33Ahr1mOUYZ30eR
```

```
6GZuh7CnK8BQhfq+z63lgctJepWlvwDSgkOvXWLHrJun7YSCrzz1bism0ZHWw7Swb9DO7vePomVBo/Hm9+e
X0pV4/cFQNMmbFaX11tqJZYBEO6sNASVAFL7A1ZcVoB2evweGU9pUQYvFvmyzzySf99miDo3NH0XYdow
nEdtoNgFfmqa3+koCP7onmRZ1h9jhsDOi30RX/DTDXQKW+XoREnOHCoOAJFwxwip/c1qaQAOqp1H6+P20ZGr
2sIPiU97OVEU9kulm+E+jgiVW3LwGheOXsUOd1B8Mp0=","start_date_in_millis":-1}}
```

```
- match: { license_status: "valid" }
```

```
- do:
```

```
  license.get: {}
```

```
## a v4 (7.X compatible) license object has 11 attributes
```

```
- length: { license: 11 }
```

```
## by default the enterprise license is "platinum", and return "max_nodes"
```

```
- match: { license.type: "platinum" }
```

```
- match: { license.max_nodes: 50 }
```

```
## Check the xpack info API as well
```

```
- do:
```

```
  xpack.info:
```

```
  {}
```

```
- match: { license.type: "platinum" }
```

```
- match: { license.mode: "platinum" }
```

```
## Check the opt-in v5 license type
```

```
- do:
```

```
  license.get:
```

```
    accept_enterprise: true
```

```
## a v5 license object has 12 attributes
```

```
- length: { license: 12 }
```

```
## opt-in to return real enterprise type
```

```
- match: { license.type: "enterprise" }
```

```
- match: { license.max_resource_units: 50 }
```

```
- match: { license.max_nodes: null }
```

```
## Check the xpack info API as well
```

```
- do:
```

```
  xpack.info:
```

```
    accept_enterprise: true
```

```
- match: { license.type: "enterprise" }
```

```
- match: { license.mode: "enterprise" }
```

```
- do:
```

```
  license.get:
```

```
    accept_enterprise: false
```

## a v4 license object has 11 attributes

- length: { license: 11 }

## opt-out of real enterprise type

- match: { license.type: "platinum" }

- match: { license.max\_nodes: 50 }

## Check the xpack info API as well

- do:

  xpack.info:

    accept\_enterprise: false

- match: { license.type: "platinum" }

}

- match: { license.mode: "platinum" }

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```
[[java-rest-high-get-license]]
```

```
=== Get License
```

```
[[java-rest-high-get-license-execution]]
```

```
==== Execution
```

The license can be added or updated using the `getLicense()` method:

```
["source","java",subs="attributes,callouts,macros"]
```

```
-----
```

```
include-tagged::{ doc-tests }/LicensingDocumentationIT.java[get-license-execute]
```

```
-----
```

```
[[java-rest-high-get-license-response]]
```

```
==== Response
```

The returned `GetLicenseResponse` contains the license in the JSON format.

```
["source","java",subs="attributes,callouts,macros"]
```

```
-----
```

```
include-tagged::{ doc-tests }/LicensingDocumentationIT.java[get-license-response]
```

```
-----
```

```
<1> The text of the license.
```

```
[[java-rest-high-get-license-async]]
```

```
==== Asynchronous Execution
```

This request can be executed asynchronously:

```
["source","java",subs="attributes,callouts,macros"]
```

```
-----
```

```
include-tagged::{ doc-tests }/LicensingDocumentationIT.java[get-license-execute-async]
```

```
-----
```

```
<1>
```

The `GetLicenseRequest` to execute and the `ActionListener` to use when the execution completes

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `GetLicenseResponse` looks like:

```
["source","java",subs="attributes,callouts,macros"]
```

```
-----
```

```
include-tagged::{ doc-tests }/LicensingDocumentationIT.java[get-license-execute-listener]
```



-----  
<1> Called when the execution is successfully completed. The response is provided as an argument

<2> Called in case of failure. The raised exception is provided as an argument

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```
[role="xpack"]  
[testenv="basic"]  
[[get-license]]  
=== Get license API
```

++++

<titleabbrev>Get license</titleabbrev>

++++

This API enables you to retrieve licensing information.

[discrete]

==== Request

`GET /\_license`

[discrete]

==== Description

This API returns information about the type of license, when it was issued, and when it expires, for example.

For more information about the different types of licenses, see <https://www.elastic.co/subscriptions>.

[discrete]

==== Query Parameters

`local`::

(Boolean) Specifies whether to retrieve local information. The default value is `false`, which means the information is retrieved from the master node.

[discrete]

==== Authorization

You must have `monitor` cluster privileges to use this API.

For more information, see <<security-privileges>>.

[discrete]

==== Examples

The following example provides information about a trial license:

[source,console]

-----  
GET /\_license  
-----

[source,console-result]  
-----



```

{
  "license" : {
    "status" : "active",
    "uid" : "cbff45e7-c553-41f7-ae4f-9205eabd80xx",
    "type" : "trial",
    "issue_date" : "2018-10-20T22:05:12.332Z",
    "issue_date_in_millis" : 1540073112332,
    "expiry_date" : "2018-11-19T22:05:12.332Z",
    "expiry_date_in_millis" : 1542665112332,
    "max_nodes" : 1000,
    "issued_to" : "test",
    "issuer" : "elasticsearch",
    "start_date_in_millis" : -1
  }
}
}
-----
// TESTRESPONSE[s/"cbff45e7-c553-41f7-ae4f-9205eabd80xx"/$body.license.uid/]
// TESTRESPONSE[s/"basic"/$body.license.type/]
// TESTRESPONSE[s/"2018-10-20T22:05:12.332Z"/$body.license.issue_date/]
// TESTRESPONSE[s/1540073112332/$body.license.issue_date_in_millis/]
// TESTRESPONSE[s/"2018-11-19T22:05:12.332Z"/$body.license.expiry_date/]
// TESTRESPONSE[s/1542665112332/$body.license.expiry_date_in_millis/]
// TESTRESPONSE[s/1000/$body.license.max_nodes/]
//
TESTRESPONSE[s/"test"/$body.license.issued_to/]
// TESTRESPONSE[s/"elasticsearch"/$body.license.issuer/]

```

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```
// -----  
// Transitive dependencies of this project determined from the  
// maven pom organized by organization.  
// -----
```

Apache Extras for Apache log4j.

From: 'an unknown organization'

- geronimo-jms\_1.1\_spec org.apache.geronimo.specs:geronimo-jms\_1.1\_spec:jar:1.0

From: 'Apache Software Foundation' (<http://www.apache.org>)

- Apache Log4j (<http://logging.apache.org/log4j/1.2/>) log4j:log4j:bundle:1.2.17

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JUnRAR is based on the UnRAR tool, and covered by the same license  
It was formerly available from <http://java-unrar.svn.sourceforge.net/>

```
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Sqlite (bundled in org.xerial's sqlite-jdbc)

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The code for the t-digest was originally authored by Ted Dunning

A number of small but very helpful changes have been contributed by Adrien Grand (<https://github.com/jpountz>)  
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Apache log4j

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[role="xpack"]

[testenv="basic"]

[[update-license]]

=== Update license API

++++

<titleabbrev>Update license</titleabbrev>

++++

Updates the license for your {es} cluster.

[[update-license-api-request]]

==== {api-request-title}

`PUT \_license`

`POST \_license`

[[update-license-api-prereqs]]

==== {api-prereq-title}

If {es} {security-features} are enabled, you need `manage` cluster privileges to install the license.

If {es} {security-features} are enabled and you are installing a gold or higher license, you must enable TLS on the transport networking layer before you install the license. See <<configuring-tls>>.

[[update-license-api-desc]]

==== {api-description-title}

You can update your license at runtime without shutting down your nodes. License updates take effect immediately. If the license you are installing does not support all of the features that were available with your previous license, however, you are notified in the response. You must then re-submit the API request with the `acknowledge` parameter set to `true`.

For more information about the different types of licenses, see <https://www.elastic.co/subscriptions>.

[[update-license-api-query-params]]

==== {api-query-parms-title}

`acknowledge`::

(Optional, Boolean)

Specifies whether you acknowledge the license changes. The default value is `false`.

[[update-license-api-request-body]]

==== {api-request-body-title}

`licenses`::

(Required, array)

A sequence of one or more JSON documents containing the license information.

[[update-license-api-example]]

==== {api-examples-title}

The following example updates to a basic license:

[source,console]

```
-----  
PUT _license  
{  
  "licenses": [  

```

```
{
  "uid":"893361dc-9749-4997-93cb-802e3d7fa4xx",
  "type":"basic",
  "issue_date_in_millis":1411948800000,
  "expiry_date_in_millis":1914278399999,
  "max_nodes":1,
  "issued_to":"issuedTo",
  "issuer":"issuer",
  "signature":"xx"
}
]
}
```

-----  
// TEST[skip:license testing issues]

NOTE: These values are invalid; you must substitute the appropriate content from your license file.

You can also install your license file using a `curl` command. Be sure to add `@` before the license file path to instruct curl to treat it as an input file.

[source,shell]

-----  
curl -XPUT -u <user> 'http://<host>:<port>/\_license' -H "Content-Type: application/json" -d @license.json  
-----

// NOTCONSOLE

On Windows, use the following command:

[source,shell]

-----  
Invoke-WebRequest -uri http://<host>:<port>/\_license -Credential elastic -Method Put -ContentType "application/json" -InFile .\license.json  
-----

In these examples,

- \* ``<user>`` is a user ID with the appropriate authority.
- \* ``<host>`` is the hostname of any node in the {es} cluster (`localhost` if executing locally)
- \* ``<port>`` is the http port (defaults to `9200`)
- \* `license.json` is the license JSON file

NOTE: If your {es} node has SSL enabled on the HTTP interface, you must start your URL with `https://`

If you previously had a license with more features than the basic license, you



receive the following response:

```
[source,js]
```

```
-----  
{  
  "acknowledged": false,  
  "license_status": "valid",  
  "acknowledge": {  
    "message": ""  
    "This license update requires acknowledgement. To acknowledge the license, please read the  
following messages and update the license again, this time with the "acknowledge=true" parameter:""  
    "watcher": [  
      "Watcher will be disabled"  
    ],  
    "logstash": [  
      "Logstash will no longer poll for centrally-managed pipelines"  
    ],  
    "security": [  
      "The following X-Pack security  
functionality will be disabled: ..." ]  
    }  
  }  
}
```

```
-----  
// NOTCONSOLE
```

To complete the update, you must re-submit the API request and set the  
`acknowledge` parameter to `true`. For example:

```
[source,console]
```

```
-----  
PUT _license?acknowledge=true  
{  
  "licenses": [  
    {  
      "uid": "893361dc-9749-4997-93cb-802e3d7fa4xx",  
      "type": "basic",  
      "issue_date_in_millis": 1411948800000,  
      "expiry_date_in_millis": 1914278399999,  
      "max_nodes": 1,  
      "issued_to": "issuedTo",  
      "issuer": "issuer",  
      "signature": "xx"  
    }  
  ]  
}
```

```
-----  
// TEST[skip:license testing issues]
```

Alternatively:

[source,sh]

```
-----  
curl -XPUT -u elastic 'http://<host>:<port>/_license?acknowledge=true' -H "Content-Type: application/json" -d  
@license.json  
-----
```

//

NOTCONSOLE

For more information about the features that are disabled when your license expires, see

{kibana-ref}/managing-licenses.html#license-expiration[License expiration].

[role="xpack"]

[testenv="basic"]

[[delete-license]]

=== Delete license API

++++

<titleabbrev>Delete license</titleabbrev>

++++

This API enables you to delete licensing information.

[discrete]

==== Request

```
`DELETE /_license`
```

[discrete]

==== Description

When your license expires, {xpack} operates in a degraded mode. For more information, see

{kibana-ref}/managing-licenses.html#license-expiration[License expiration].

[discrete]

==== Authorization

You must have `manage` cluster privileges` to use this API.

For more information, see

<<security-privileges>>.

[discrete]

==== Examples

The following example queries the info API:

[source,console]

DELETE /\_license

-----  
// TEST[skip:license testing issues]

When the license is successfully deleted, the API returns the following response:

[source.js]

-----  
{  
 "acknowledged":  
 true  
}

-----  
// NOTCONSOLE

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---

teardown:

- do:

license.post:

acknowledge: true

body: |

```
{ "licenses": [ { "uid": "3aa62ffe-36e1-4fad-bfdc-9dff8301eb22", "type": "trial", "issue_date_in_millis": 1523456691721, "expiry_date_in_millis": 1838816691721, "max_nodes": 5, "issued_to": "customer", "issuer": "elasticsearch", "signature": "AAAABAAAAA2kWNcuc+DT0lrImYZKAAAIAo5/x6hrsGh1GqqrJmy4qgmEC7gK0U4zQ6q5ZEMhm4jAAABAEn6fG9y2VxKBu2T3D5hffh56kzOQODCOdhr0y2d17ZSIJMZRqO7ZywPCWNS1aR33GhfIHkTER0ysML0xMH/gXavhyRvMBndJj0UBKzuwpTawSlnxYtcqN8mSBIvJC7Ki+uJ1SpAILC2ZP9fnkRlqwXqBITwfYn7xnZgu9DKrOWru/ipTPObo7jcePl8VTK6nWFen7/hCFDQTUFZ0jQvd+nq7A1PAcHGNxGfdbMVmAXCXgGWkrRfT3clo9/vadgo+isNyh1sPq9mN7gwsvBAKtA1FrpH2EXYYbfOsSpBvUmhYMgErLg1k3/CbS0pCWLKOaX1xTMayosdZOjagU3auZXY=", "start_date_in_millis": -1 } ] }
```

---

"Installing and getting license works":

## current license version

- do:

license.post:

acknowledge: true

body: |

```
{ "licenses": [ { "uid": "894371dc-9t49-4997-93cb-802e3r7fa6a8", "type": "trial", "issue_date_in_millis": 1411948800000, "expiry_date_in_millis": 1916956799999, "max
```



```
_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAgAAAA0FWh0T9njItjQ2qammAAABmC
9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZwUzRxVk1PSmkxakxZdW5IMlhlTHNoN1N2MXM
vRfK4d3JTZE3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprZWZSQi9iNmRQNkw1SlpLN0lDalZCS095M
XRGN1IIZlpYcVVTTnFrcTE2dzhJZmZrdFQrN3JQeGwxboU0MXZ0dDJHSERiZTVLOHNzSDBYwnpoZEphZH
BEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNWGM5TUhQV2plaUo4Q1JOUml4MXNuL0pSOEhQa
VB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28zSmRnVkF1b2JSQkFLV2VXUmVHNDZ2R3o2VE1q
bVNQS2lxOHN5bUErZINIWkZSVmZiWEtaSU9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6dldMbmMzSGtQ
c3FWOTgzZ3ZUCXmVQkt2RUZwMFJnZzlvL2d2bDRWUzh6UG5pdENGWFRreXNKNkE9PQAAAQBZhvozA0
trrxhUZ1QbaTsKTna9C5KVQ6pv8yg1pnsBpZXC18kX1SrgoFn1bXq61IvJwfw5qnmYNiH3hRhTO9EyaCBqaLk8
NXZQ6TrRkQSpEnnBwAYUkZeKXsuBoOk4B4mzwc/r8aMAkzrTiEBtBbog+57cSaU9y37Gkdd+1jXCQrxP+jO
EUf7gnXWZvE6oeRroLvCt1fYn09k0CF8kKTbrPTSjC6igZR3uvTHyee74XQ9PRavvHax73T4UOEdQZX/P1ibS
QIWKbBRD5YQ1POYVjTayoltTnWLMxfEcAkkATJZLhpBEHST7kZWjrTS6J1dCREJc7a8Vsj/78HXvOIy"}}}
```

```
- match: { license_status: "valid" }
```

```
- do:
  license.get: { }
```

```
## the rest API defaults to a v4 license output with 11 attributes
```

```
- length: { license: 11 }
```

```
## bwc for licenses format
```

```
- do:
  license.post:
    acknowledge: true
    body: |
      {"licenses":[{"uid":"893361dc-9749-4997-93cb-
802e3d7fa4a8","type":"gold","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"ma
x_nodes":1,"issued_to":"issued_to","issuer":"issuer","signature":"AAAAAwAAAA2T3vqdBBetKQaBgxpAAAB
mC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZwUzRxVk1PSmkxakxZdW5IMlhlTHNoN1N2M
XMvRfK4d3JTZE3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprZWZSQi9iNmRQNkw1SlpLN0lDalZCS09
5MXRGN1IIZlpYcVVTTnFrcTE2dzhJZmZrdFQrN3JQeGwxboU0MXZ0dDJHSERiZTVLOHNzSDBYwnpoZEph
ZHBEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNWGM5TUhQV2plaUo4Q1JOUml4MXNuL0pSOE
hQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28zSmRnVkF1b2JSQkFLV2VXUmVHNDZ2R3o2V
E1qbVNQS2lxOHN5bUErZINIWkZSVmZiWEtaSU9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6dldMbmMzS
GtQc3FWOTgzZ3ZUCXmVQkt2RUZwMFJnZzlvL2d2bDRWUzh6UG5pdENGWFRreXNKNkE9PQAAAQB7pG
FYgawfLm9zzT80LvcLHjy1t/v2uSzCQWKdXXhrwSy4WrAH2uK/+PEiQ7aEpW5erLsyJ5KLA6OEZJDaP7r+mj
OPuLt0++I5j4DMn7ybMzOPHXWbc6LETE3+pp0GZPyOmwsDkZSRUegTtcir2R6z+mdnGrhOYM80y08KVW
whdU/DHw41MK7ePo6tq73Nz49y9IDgt9fxA0t4ggEBPbnTDDbVQ25AjauY8sa0M5eg9rDDRayw1KamYWwra8
PIGX+2YjhtUeQhmlCPdlxc9wECJ7/knPss5bI3ZoXQR3fyXhjcXNnHEIsblqLrMCa13pLxs7II+KPYMa2ZYL/am4
P"}]}
```

```
- match: { license_status: "valid" }
```

```
- do:
  license.get: { }
```

```
- length: { license: 11 }
```

```
## license version: 1.x
- do:
  license.post:
    acknowledge: true
    body: |
      {"licenses":[{"uid":"893361dc-9749-4997-93cb-802e3d7fa4a8","type":"subscription","subscription_type":"gold","issue_date_in_millis":1411948800000,"feature":"shield","expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAQAAAA0LVAYwWpSH94cyXr4zAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZwUzRxVk1PSmkxakxZdW5IMlhlTHNoN1N2MXMvRFk4d3JTZEEx3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWKprZWZSQi9iNmRQNkw1SlpLN0lDalZCS095MXRGN1IIZlpYcVVTnFrcTE2dzhJZmZrdFQrN3JQeGwxb0U0MXZ0dDJHSERiZTVLOHNzSDBYwNpoZEphZHBEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNWGM5TUhQV2plaUo4Q1JOUm4MXNuL0pSOEhQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28zSmRnVkf1b2JSQkFLV2VXUmVHNDZ2R3o2VE1qbVNQS2lxOHN5bUErZINIWkZSVmZiWEtaSU9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6dldMbmMzSGtQc3FWOTgzZ3ZUCXmVQkt2RUZwMFJnZzlvL2d2bDRWUzh6UG5pdENGWFRreXNKNke9PQAAAQA4qssc/URRZVdFoLwgy9dqybYEQLW8YLkiAyPV5XHHHdtk+dtZiepiNEDkUXhSX2waVJlsNRF8/4kqplDfwNoD2TUM8ftgiIfiSiZYGDTGST+yW/5eAveEU5J5v1liBN27bwkqL+V4YAa0Tcm7NKKwjScWKAHiTU3vF8chPkGfCHE0kQgVwPC9RE82pTw0s6/uR4PflGNFfqPM0uiE5nucfVrtj89JQiO/KA/7ZyFbo7VTNXxZQt7T7rZWBCP9KIjptXzcWuk08Q5S+rSoJNYbFo3HGKtrCVsRz/55rceNtdwKKXu1IwnSeir4I1/KLduQTtFLy0+1th87VS8T88UT" ]}]
```

```
- match: { license_status: "valid" }
```

```
- do:
  license.get: { }
```

```
- length: { license:
11 }
```

```
## multiple licenses version: 1.x
```

```
- do:
  license.post:
    acknowledge: true
    body: |
      {"licenses":[{"uid":"893361dc-9749-4997-93cb-802e3d7fa4a8","type":"internal","subscription_type":"none","issue_date_in_millis":1411948800000,"feature":"shield","expiry_date_in_millis":1440892799999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAQAAAA04Q4ky3rFyyWLFkytEAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZwUzRxVk1PSmkxakxZdW5IMlhlTHNoN1N2MXMvRFk4d3JTZEEx3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWKprZWZSQi9iNmRQNkw1SlpLN0lDalZCS095MXRGN1IIZlpYcVVTnFrcTE2dzhJZmZrdFQrN3JQeGwxb0U0MXZ0dDJHSERiZTVLOHNzSDBYwNpoZEphZHBEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNWGM5TUhQV2plaUo4Q1JOUm4MXNuL0pSOEhQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28zSmRnVkf1b2JSQkFLV2VXUmVHNDZ2R3o2VE1qbVNQS2lxOHN5bUErZINIWkZSVmZiWEtaSU9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6dldMbmMzSGtQc3FWOTgzZ3ZUCXmVQkt2RUZwMFJnZzlvL2d2bDRWUzh6UG5pdENGWFRreXNKNke9PQAAAQBxMvUMn4h2E4R4TQMijahTxQj4LPQO4f1M79UxX/XkDiGcH+J5pRHx08OfTRPsFL1IED+h+PIXx307Vo+PNDsOxrWvoYZeYBkOLAO3ny9vhQga+52jYhMxIuFrT9xbcSCSNpMhGojgOIPU2WgiopVdVcimo1+Gk8VtkIPB1wPwFzfOjOnPgp/Icx3WYpfkeAUUOyWUYiFIBAe4bnz84iF+XwLKB
```

```
gYk6aHF25ECBtdb/Uruhcm9+jEFpoIEUtCouvvk9C+NJZ4OickV4xpRgaRG2x9PONH8ZN0QGHGYhJGbisOCxu
DmlLsyVxqxfMu3n/r7/jdsEJScjAlSrsLDOu6H"}, {"uid": "893361dc-9749-4997-93cb-
802e3dofh7aa", "type": "internal", "subscription_type": "none", "issue_date_in_millis": 1443484800000, "feature": "wat
her", "expiry_date_in_millis": 1914278399999, "max_nodes": 1, "issued_to": "issuedTo", "issuer": "issuer", "signature": "
AAAAAQAAAA0Sc90guRIaQEmgLvMnAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMV
ZwUzRxVk1PSmkxakxZdW5IMlhlTHNoN1N2MXMvRFk4d3JTZEx3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHB
kWkprZWZSQi9iNmRQNkw1SlpLN0lDalZCS095MXRGN1lIZlpYcVVTTnFrcTE2dzhJZmZrdFQRn3JQeGwxh0
U0MXZ0dDJHSERiZTVLOHNzSDBYwnpoZEphZHBEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktN
WGM5TUhQV2plaUo4Q1JOUmI4MXNuL0pSOEhQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c2
8zSmRnVkf1b2JSQkFLV2VXUmVHNDZ2R3o2VE1qbVNQS2lxOHN5bUErZlNIWkZSVmZIWEtaSU9wTTJEN
DVvT1NCYklacUYyK2FwRW9xa0t6ldMbmMzSGtQc3FWOTgzZ3ZUcXMvQkt2RUZwMFJnZzlvL2d2bDRW
Uzh6UG5pdENGWFRreXNKNkE9PQAAAQC94dju0pnDZR3Uuypi0ic3aQJ+nvVqe+U8u79Dga5n1qLjcHDh7H
vIBJEkF+tnVPlo/PXV/x7BZSwVY1PVERit+6rYix1yuHEgqwxmx/VdRICjCaZM6tk0Ob4dZCPv6Ebn2Mmk89KH
C/PwiLPqF6QfV/Pkpa8k2A3ORJmvYSDvXhe6tCs8dq4ebrsFxqrZjwWh5CZSpzqqZBFXIngDv2N0hHhpGlueR
szD0JJ5dfEL5ZA1DDOrgO9OJVeJSHyRqe1L5QRUNdXPVfS+EAG0Dd1cNdJ/sMpYCPnVjBw6iq2/YgM3cuztsX
VBY7ij4WnoP3ce7Zjs9TwHn+IqzftC6"}]}
```

```
- match: { license_status: "valid" }
```

```
- do:
```

```
  license.get: {}
```

```
- length: { license: 11 }
```

```
- match: { license.uid: "893361dc-9749-4997-93cb-802e3dofh7aa" }
```

```
---
```

```
"Should revert back to basic license after license deletion":
```

```
- do:
```

```
  license.delete: {}
```

```
- match: { acknowledged: true }
```

```
- do:
```

```
  license.get: {}
```

```
- match: { license.type: "basic" }
```

```
- set: { license.uid: id }
```

```
- do: # delete an existing basic license is a no-op
```

```
  license.delete: {}
```

```
- do:
```

```
  license.get:
```

```
  {}
```

```
- match: { license.uid: $id }
```

```
---
```

```
"Should install a feature type license":
```

```
  # VERSION_NO_FEATURE_TYPE license version
```

```
- do:
  license.post:
    acknowledge: true
    body: |
      {"license": {"uid": "893361dc-9749-4997-93cb-
802e3d7fa4a8", "type": "gold", "issue_date_in_millis": 1411948800000, "expiry_date_in_millis": 1914278399999, "ma
x_nodes": 1, "issued_to": "issued_to", "issuer": "issuer", "signature": "AAAAAgAAAA3U8+YmnmvWC+CWsV/mRAA
ABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZwUzRxVk1PSmkxakxZdW5IMlhlTHNoN1N
2MXMvRFk4d3JTZE3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprZWZSQi9iNmRQNkw1SlpLN0lDalZC
S095MXRGN1IIZlpYcVVTnFrcTE2dzhJZmZrdFQrN3JQeGwx0U0MXZ0dDJHSERiZTVLOHNzSDBYwnpoZ
EphZHBEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNWGM5TUhQV2plaUo4Q1JOUm14MXNuL0pS
OEhQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28zSmRnVkF1b2JSQkFLV2VXUmVHNDZ2R3
o2VE1qbVNQS2lxOHN5bUErZINIWkZSVmZIWEtaSU9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6ldMbm
MzSGtQc3FWOTgzZ3ZUcXMvQkt2RUZwMFJnZzlVl2d2bDRWUzh6UG5pdENGWFRreXNKNkE9PQAAAQB
e8GfzDm6T537Iuuvjetb3xK5dvg0K5NQapv+rczWcQFxcGuzbF8plkgetP1aAGZP4uRESQPMIOCSx4d0UqqAm
9f7GbBQ3193P+PogInPFeEH9NvOmaAQovmxVM9SE6DsDqLX4cXSO+bgWpXPTd2LmpoQc1fXd6BZ8GeuyYp
VHVkP9hVU0tAYjw6HzYOE7+zuO1oJYOxElqy66AnIfkvHrvni+flym3tE7tDTgsDRaz7W3iBhaqiSntEqabEkvH
dPHQdSR99XGaEvnHO1paK01/35iZF6OXHsF7CCj+558GRXiVxzueOe7TsGSS8g7YjZwV9bRCyU7oB4B/nidg
I"}}
```

```
- match: { license_status: "valid" }
```

```
- do:
  license.get: { }
```

```
- length: { license: 11 }
```

```
---
```

```
"Cannot start basic":
```

```
- do:
  catch: bad_request
  license.post:
    acknowledge: true
    body: |
      {"license": {"uid": "893361dc-9749-4997-93cb-
802e3d7fa4a8", "type": "basic", "issue_date_in_millis": 1411948800000, "expiry_date_in_millis": 1914278399999, "ma
x_nodes": 1, "issued_to": "issuedTo", "issuer": "issuer", "signature": "AAAAAgAAAA0IKPZ0a7aZquUltho/AAABmC
9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZwUzRxVk1PSmkxakxZdW5IMlhlTHNoN1N2MXM
vRFk4d3JTZE3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprZWZSQi9iNmRQNkw1SlpLN0lDalZCS095M
XRGN1IIZlpYcVVTnFrcTE2dzhJZmZrdFQrN3JQeGwx0U0MXZ0dDJHSERiZTVLOHNzSDBYwnpoZEphZH
BEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNWGM5TUhQV2plaUo4Q1JOUm14MXNuL0pSOEhQa
VB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28zSmRnVkF1b2JSQkFLV2VXUmVHNDZ2R3o2VE1q
bVNQS2lxOHN5bUErZINIWkZSVmZIWEtaSU9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6ldMbmMzSGtQ
c3FWOTgzZ3ZUcXMvQkt2RUZwMFJnZzlVl2d2bDRWUzh6UG5pdENGWFRreXNKNkE9PQAAAQAALuQ44
S3IG6SzolcXVJ6Z4CIXORDrYQ+wdLceey0XdujTslAOj+k+vNgo6wauc7Uswi01esHu4l5IgpvKy7RRCbh5bj/z2
ubu2qMJqopp9BQyD7VQjVfqmG6seUMJwJ1a5Avvm9r41YPSPCrii3bKK2e1l6jK6N8ibCvnTyY/XkYGCJrBWT
SJePDbg6ErbyodrZ37x1StLbPWcNAkmweyHjDJnvYnbeZZO7A3NmubXZjW7Ttf8/YwQyE00PqMcl7fVPY3hk
KpAeHf8aaJbqkKYbqZuER3EWJX7ZvLVb1dNdNg8aXRn7YrkQcYwWgptYQpfV+D7yEJ4j5muAEoler"}}
```

```
- match: { error.root_cause.0.reason: 'Installing basic licenses is no longer allowed. Use the POST
/_license/start_basic API to install a basic license that does not expire.' }
```

---

"Should fail gracefully when body content is not provided":

```
- do:
  catch:
bad_request
  license.post:
    acknowledge: true
```

```
- match: { error.root_cause.0.reason: 'The license must be provided in the request body' }
```

---

"Current license is trial means not eligible to start trial":

```
- do:
  license.get_trial_status: { }
```

```
- match: { eligible_to_start_trial: false }
```

```
- do:
  license.post_start_basic:
    acknowledge: true
```

```
- match: { basic_was_started: true }
```

```
- do:
  license.get_trial_status: { }
```

```
- match: { eligible_to_start_trial: false }
```

```
- do:
  catch: forbidden
  license.post_start_trial:
    acknowledge: true
```

```
- match: { trial_was_started: false }
```

```
- match: { error_message: "Operation failed: Trial was already activated." }
```

---

"Trial license cannot be basic":

```
- do:
  catch: bad_request
  license.post_start_trial:
    type: "basic"
    acknowledge: true
```

---

"Can start basic license if do not already have basic":

```

- do:
  license.get_basic_status: {}

- match: { eligible_to_start_basic:
true }

- do:
  license.post_start_basic:
    acknowledge: true

- match: { basic_was_started: true }
- match: { acknowledged: true }

- do:
  license.get_basic_status: {}

- match: { eligible_to_start_basic: false }

- do:
  catch: forbidden
  license.post_start_basic: {}

- match: { basic_was_started: false }
- match: { acknowledged: true }
- match: { error_message: "Operation failed: Current license is basic." }
---
"Must acknowledge to start basic":
- do:
  license.post_start_basic: {}

- match: { basic_was_started: false }
- match: { acknowledged: false }
- match: { error_message: "Operation failed: Needs acknowledgement." }
ICU License - ICU 1.8.1 and later

```

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---

"No features should be used just by starting up with default configuration":

- do:

    license.get\_feature\_usage: { }

- length: { features: 0 }

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```

```
Gnomovision
```

```
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```

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```

```
signature of Ty Coon, 1 April 1989
```

```
Ty Coon, President of Vice
```

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```
[role="xpack"]  
[[license-settings]]  
=== License settings
```

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For more information, see

{kibana-ref}/managing-licenses.html[License management].

```
`xpack.license.self_generated.type`::
```

```
(<<static-cluster-setting,Static>>)
```

```
Set to `basic` (default) to enable basic {xpack} features. +
```

```
+
```

```
--
```

```
If set to `trial`, the self-generated license gives access only to all the features of a x-pack for 30 days. You can later downgrade the cluster to a basic license if needed.
```

```
--
```

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The Apache Software Foundation (http://www.apache.org/).
```

```
src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
```

```
contains test data from http://aspell.net/test/orig/batch0.tab.
```

```
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)
```

```
=====
```

```
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```

```
src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
```

```
contains test data from http://aspell.net/test/orig/batch0.tab.
```



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[rw8baSjJaam+ +?b!u&2tW!IYi.fj@/ G#uZv\_sgj2UXk.I dbq7kT%h5'Nv5[D4!l@ 1  
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May 22, 2015

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## 1.440 elasticsearch 7.8.1

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[[java-rest-high-delete-license]]

=== Delete License

[[java-rest-high-delete-license-execution]]

==== Execution

The license can be deleted using the `deleteLicense()` method:

["source", "java", subs="attributes,callouts,macros"]

-----  
include-tagged::{ doc-tests }/LicensingDocumentationIT.java[delete-license-execute]  
-----

[[java-rest-high-delete-license-response]]

==== Response

The returned `DeleteLicenseResponse` contains the `acknowledged` flag, which returns true if the request was processed by all nodes.

["source", "java", subs="attributes,callouts,macros"]

-----  
include-tagged::{ doc-tests }/LicensingDocumentationIT.java[delete-license-response]  
-----

<1> Check the `acknowledge` flag. It should be true if license deletion is acknowledged.

[[java-rest-high-delete-license-async]]

==== Asynchronous Execution

This  
request can be executed asynchronously:

["source", "java", subs="attributes,callouts,macros"]

-----  
include-tagged::{ doc-tests }/LicensingDocumentationIT.java[delete-license-execute-async]  
-----

<1> The `DeleteLicenseRequest` to execute and the `ActionListener` to use when the execution completes

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `DeleteLicenseResponse` looks like:

```
["source","java",subs="attributes,callouts,macros"]
-----
include-tagged::{doc-tests}/LicensingDocumentationIT.java[delete-license-execute-listener]
-----
<1> Called when the execution is successfully completed. The response
is
provided as an argument
<2> Called in case of failure. The raised exception is provided as an argument
Apache HTrace
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```

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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](mailto: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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```
[[java-rest-high-put-license]]
```

```
=== Update License
```

```
[[java-rest-high-put-license-execution]]
```

```
==== Execution
```

The license can be added or updated using the `putLicense()` method:

```
["source","java",subs="attributes,callouts,macros"]
```

```
-----  
include-tagged::{doc-tests}/LicensingDocumentationIT.java[put-license-execute]
```

```
-----  
<1> Set the categories of information to retrieve. The default is to  
return no information which is useful for checking if {xpack} is installed  
but not much else.
```

```
<2> A JSON document containing the license information.
```

```
[[java-rest-high-put-license-response]]
```

```
==== Response
```

The returned `PutLicenseResponse` contains the `LicensesStatus`, `acknowledged` flag and possible acknowledge messages. The acknowledge messages are present if you previously had a license with more features than one you are trying to update and you didn't set the `acknowledge` flag to `true`. In this case you need

to display the messages to the end user and if they agree, resubmit the license with the `acknowledge` flag set to `true`. Please note that the request will still return a 200 return code even if it requires an acknowledgement. So, it is necessary to check the `acknowledged` flag.

```
["source","java",subs="attributes,callouts,macros"]
```

```
-----
```



include-tagged::{ doc-tests }/LicensingDocumentationIT.java[put-license-response]

- 
- <1> The status of the license
  - <2> Make sure that the license is valid.
  - <3> Check the acknowledge flag. It should be true if license is acknowledged.
  - <4> Otherwise we can see the acknowledge messages in `acknowledgeHeader()`
  - <5> and check component-specific messages in `acknowledgeMessages()`.

[[java-rest-high-put-license-async]]

==== Asynchronous Execution

This request can be executed asynchronously:

["source", "java", subs="attributes,callouts,macros"]

-----

include-tagged::{ doc-tests }/LicensingDocumentationIT.java[put-license-execute-async]

-----

<1>

The `PutLicenseRequest` to execute and the `ActionListener` to use when the execution completes

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `PutLicenseResponse` looks like:

["source", "java", subs="attributes,callouts,macros"]

-----

include-tagged::{ doc-tests }/LicensingDocumentationIT.java[put-license-execute-listener]

-----

- <1> Called when the execution is successfully completed. The response is provided as an argument
- <2> Called in case of failure. The raised exception is provided as an argument

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analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java  
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analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java  
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OSXAdapter

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\*\*\*The art of simplicity is a puzzle of complexity.\*\*\*

## Overview ##

[YAML](<http://yaml.org>) is a data serialization format designed for human readability and interaction with scripting  
languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## ## SnakeYAML features ##

- \* a **complete** [YAML 1.1 processor](<http://yaml.org/spec/1.1/current.html>). In particular, SnakeYAML can parse all examples from the specification.
- \* Unicode support including UTF-8/UTF-16 input/output.
- \* high-level API for serializing and deserializing native Java objects.
- \* support for all types from the [YAML types repository](<http://yaml.org/type/index.html>).
- \* relatively sensible error messages.

## ## Info ##

- \* [Changes](<https://bitbucket.org/asomov/snakeyaml/wiki/Changes>)
- \* [Documentation](<https://bitbucket.org/asomov/snakeyaml/wiki/Documentation>)

## ## Contribute ##

- \* Mercurial DVCS is used to dance with the [source code](<https://bitbucket.org/asomov/snakeyaml/src>).
- \* If you find a bug in SnakeYAML, please [file a bug report](<https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open>).
- \* You may discuss SnakeYAML at [the mailing list](<http://groups.google.com/group/snakeyaml-core>).

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body: |

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acknowledge: true

body: |

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2sIPiU97OVEU9kulm+E+jgiVW3LwGheOXsUOd1B8Mp0=","start_date_in_millis":-1}}
```

```
- match: { license_status: "valid" }
```

```
- do:
```

```
  license.get: { }
```

```
## a v4 (7.X compatible) license object has 11 attributes
```

```
- length: { license: 11 }
```

```
## by default the enterprise license is "platinum", and return "max_nodes"
```

```
- match: { license.type: "platinum" }
```

```
- match: { license.max_nodes: 50 }
```

```
## Check the xpack info API as well
```

```
- do:
```

```
  xpack.info:
```

```
  { }
```

```
- match: { license.type: "platinum" }
```

```
- match: { license.mode: "platinum" }
```

```
## Check the opt-in v5 license type
```

```
- do:
```

```
  license.get:
```

```
    accept_enterprise: true
```

```
## a v5 license object has 12 attributes
```

```
- length: { license: 12 }
```

```
## opt-in to return real enterprise type
```

```
- match: { license.type: "enterprise" }
```

```
- match: { license.max_resource_units: 50 }
```

```
- match: { license.max_nodes: null }
```

```
## Check the xpack info API as well
```

```
- do:
```

```
  xpack.info:
```

```
    accept_enterprise: true
```

```
- match: { license.type: "enterprise" }
```

```
- match: { license.mode: "enterprise" }
```

```
- do:
```

```
  license.get:
```

```
    accept_enterprise: false
```

## a v4 license object has 11 attributes

- length: { license: 11 }

## opt-out of real enterprise type

- match: { license.type: "platinum" }

- match: { license.max\_nodes: 50 }

## Check the xpack info API as well

- do:

  xpack.info:

    accept\_enterprise: false

- match: { license.type: "platinum"

  }

- match: { license.mode: "platinum" }

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[role="xpack"]

[testenv="basic"]

[[update-license]]

=== Update license API

++++

<titleabbrev>Update license</titleabbrev>



++++

Updates the license for your {es} cluster.

[[update-license-api-request]]

==== {api-request-title}

`PUT \_license`

`POST \_license`

[[update-license-api-prereqs]]

==== {api-prereq-title}

If {es} {security-features} are enabled, you need `manage` cluster privileges to install the license.

If {es} {security-features} are enabled and you are installing a gold or higher license, you must enable TLS on the transport networking layer before you install the license. See <<configuring-tls>>.

[[update-license-api-desc]]

==== {api-description-title}

You can update your license at runtime without shutting down your nodes. License updates take effect immediately. If the license you are installing does not support all of the features that were available with your previous license, however, you are notified in the response. You must then re-submit the API request with the `acknowledge` parameter set to `true`.

For more information about the different types of licenses, see <https://www.elastic.co/subscriptions>.

[[update-license-api-query-params]]

==== {api-query-parms-title}

`acknowledge`::

(Optional, boolean)

Specifies whether you acknowledge the license changes. The default value is `false`.

[[update-license-api-request-body]]

==== {api-request-body-title}

`licenses`::

(Required, array)

A sequence of one or more JSON documents containing the license information.

```
[[update-license-api-example]]
```

```
==== {api-examples-title}
```

The following example updates to a basic license:

```
[source,console]
```

```
-----  
PUT _license  
{  
  "licenses": [  
    {  
      "uid":"893361dc-9749-4997-93cb-802e3d7fa4xx",  
      "type":"basic",  
      "issue_date_in_millis":1411948800000,  
      "expiry_date_in_millis":1914278399999,  
      "max_nodes":1,  
      "issued_to":"issuedTo",  
      "issuer":"issuer",  
      "signature":"xx"  
    }  
  ]  
}
```

```
-----  
// TEST[skip:license testing issues]
```

NOTE: These values are invalid; you must substitute the appropriate content from your license file.

You can also install your license file using a `curl` command. Be sure to add `@` before the license file path to instruct curl to treat it as an input file.

```
[source,shell]
```

```
-----  
curl -XPUT -u <user> 'http://<host>:<port>/_license' -H "Content-Type: application/json" -d @license.json
```

```
-----  
// NOTCONSOLE
```

On Windows, use the following command:

```
[source,shell]
```

```
-----  
Invoke-WebRequest -uri http://<host>:<port>/_license -Credential elastic -Method Put -ContentType  
"application/json" -InFile .\license.json
```

```
-----  
In these examples,
```

- \* ``<user>`` is a user ID with the appropriate authority.
- \* ``<host>`` is the hostname of any node in the {es} cluster (`localhost` if executing locally)
- \* ``<port>`` is the http port (defaults to `9200`)
- \* ``license.json`` is the license JSON file

NOTE: If your {es} node has SSL enabled on the HTTP interface, you must start your URL with `https://`

If you previously had a license with more features than the basic license, you receive the following response:

```
[source,js]
-----
{
  "acknowledged": false,
  "license_status": "valid",
  "acknowledge": {
    "message": """"This license update requires acknowledgement. To acknowledge the license, please read the
following messages and update the license again, this time with the "acknowledge=true" parameter:""",
    "watcher": [
      "Watcher will be disabled"
    ],
    "logstash": [
      "Logstash will no longer poll for centrally-managed pipelines"
    ],
    "security": [
      "The following X-Pack security
functionality will be disabled: ..." ]
  }
}
-----
// NOTCONSOLE
```

To complete the update, you must re-submit the API request and set the `acknowledge` parameter to `true`. For example:

```
[source,console]
-----
PUT _license?acknowledge=true
{
  "licenses": [
    {
      "uid": "893361dc-9749-4997-93cb-802e3d7fa4xx",
      "type": "basic",
      "issue_date_in_millis": 1411948800000,
      "expiry_date_in_millis": 1914278399999,
    }
  ]
}
```

```
"max_nodes":1,
"issued_to":"issuedTo",
"issuer":"issuer",
"signature":"xx"
}
]
}
```

-----  
// TEST[skip:license testing issues]

Alternatively:

[source,sh]

-----  
curl -XPUT -u elastic 'http://<host>:<port>/\_license?acknowledge=true' -H "Content-Type: application/json" -d @license.json

-----  
//  
NOTCONSOLE

For more information about the features that are disabled when your license expires, see

{kibana-ref}/managing-licenses.html#license-expiration[License expiration].

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```
[[java-rest-high-get-license]]
```

```
=== Get License
```

```
[[java-rest-high-get-license-execution]]
```

```
==== Execution
```

The license can be added or updated using the `getLicense()` method:

```
["source","java",subs="attributes,callouts,macros"]
```

-----

```
include-tagged::{doc-tests}/LicensingDocumentationIT.java[get-license-execute]
```

-----

```
[[java-rest-high-get-license-response]]
```

```
==== Response
```

The returned `GetLicenseResponse` contains the license in the JSON format.

```
["source","java",subs="attributes,callouts,macros"]
```

-----

```
include-tagged::{doc-tests}/LicensingDocumentationIT.java[get-license-response]
```

-----  
<1> The text of the license.

[[java-rest-high-get-license-async]]  
==== Asynchronous Execution

This request can be executed asynchronously:

["source","java",subs="attributes,callouts,macros"]

-----  
include-tagged::{doc-tests}/LicensingDocumentationIT.java[get-license-execute-async]  
-----

<1>

The `GetLicenseRequest` to execute and the `ActionListener` to use when the execution completes

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `GetLicenseResponse` looks like:

["source","java",subs="attributes,callouts,macros"]

-----  
include-tagged::{doc-tests}/LicensingDocumentationIT.java[get-license-execute-listener]  
-----

<1> Called when the execution is successfully completed. The response is provided as an argument

<2> Called in case of failure. The raised exception is provided as an argument

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```
[role="xpack"]
[testenv="basic"]
[[delete-license]]
=== Delete license API
++++
<titleabbrev>Delete license</titleabbrev>
++++
```

This API enables you to delete licensing information.

```
[float]
===== Request
```

```
`DELETE /_license`
```

```
[float]
===== Description
```

When your license expires, {xpack} operates in a degraded mode. For more information, see [\[License expiration\]]({kibana-ref}/managing-licenses.html#license-expiration).

```
[float]
===== Authorization
```

You must have `manage` cluster privileges to use this API. For more information, see <<security-privileges>>.`

[float]

==== Examples

The following example queries the info API:

```
[source,console]
```

```
-----  
DELETE /_license  
-----
```

```
// TEST[skip:license testing issues]
```

When the license is successfully deleted, the API returns the following response:

```
[source,js]
```

```
-----  
{  
  "acknowledged": true  
}
```

```
-----  
//  
NOTCONSOLE
```

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

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From: 'an unknown organization'

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---

teardown:

- do:

license.post:

acknowledge: true

body: |

```
{ "licenses": [{"uid": "3aa62ffe-36e1-4fad-bfdc-9dff8301eb22", "type": "trial", "issue_date_in_millis": 1523456691721, "expiry_date_in_millis": 1838816691721, "max_nodes": 5, "issued_to": "customer", "issuer": "elasticsearch", "signature": "AAAABAAAAA2kWNcuc+DT0lrImYZKAAAIAo5/x6hrsGh1GqqrJmy4qgmEC7gK0U4zQ6q5ZEMhm4jAAABAEn6fG9y2VxKBu2T3D5hffh56kzOQODCOdhr0y2d17ZSIJMZRqO7ZywPCWNS1aR33GhfIHkTER0ysML0xMH/gXavhyRvMBndJj0UBKzuwpTawSlnxYtcqN8mSBIvJC7Ki+uJ1SpAILC2ZP9fnkRlqwXqBlTwfYn7xnZgu9DKrOWru/ipTPObo7jceP18VTK6nWFen7/h
```



```
CFDQTUFZ0jQvd+nq7A1PAcHGNxGfdbMVmAXCXgGWkRfT3clo9/vadgo+isNyh1sPq9mN7gwsvBAKtA1Frp
H2EXYYbfOsSpBvUmhYMGerLg1k3/CbS0pCWLKOaX1xTMayosdZOjagU3auZXY=","start_date_in_millis":-
1}}}
```

---

"Installing and getting license works":

```
## current license version
```

```
- do:
```

```
  license.post:
```

```
    acknowledge: true
```

```
    body: |
```

```
      {"licenses":[{"uid":"894371dc-9t49-4997-93cb-
8o2e3r7fa6a8","type":"trial","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1916956799999,"max
_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAgAAAA0FWh0T9njItjQ2qammAAABmC
9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZwUzRxVk1PSmkxakxZdW5IMlhlTHNoN1N2MXM
vRFk4d3JTZEEx3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprZWZSQi9iNmRQNkw1SlpLN0lDalZCS095M
XRGN1IIZlpYcVVTTnFrcTE2dzhJZmZrdFQrN3JQeGwxb0U0MXZ0dDJHSERiZTVLOHNzSDBYwnpoZEphZH
BEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNWGM5TUhQV2plaUo4Q1JOUml4MXNuL0pSOEhQa
VB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28zSmRnVkF1b2JSQkFLV2VXUmVHNDZ2R3o2VE1q
bVNQS2lxOHN5bUErZINIWkZSVmZiWEtaSU9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6ldMbmMzSGtQ
c3FWOTgzZ3ZUcXMvQkt2RUZwMFJnZzlvL2d2bDRWUzh6UG5pdENGWFRreXNKNkE9PQAAAQBZhvoza0
trrxhUZ1QbaTsKTna9C5KVQ6pv8yg1pnsBpZXC18kX1SrgoFn1bXq61IvJwfw5qnmYNiH3hRhTO9EyaCBqaLk8
NXZQ6TrRkQSpEnnBwAYUkZeKXsIuBoOk4B4mzwc/r8aMAkzrTiEBtBbog+57cSaU9y37Gkdd+1jXCQrxP+jO
EUf7gnXWZvE6oeRroLvCt1fYn09k0CF8kKTbrPTSjC6igZR3uvTHyee74XQ9PRavvHax73T4UOEdQZX/P1ibS
QIWKbBRD5YQ1POYVjTayoltTnWLMxfEcAkkATJZLhpBEHST7kZWjrTS6J1dCREJc7a8Vsj/78HXvOIy"}]}
```

```
- match: { license_status: "valid" }
```

```
- do:
```

```
  license.get: { }
```

```
## the rest API defaults to a v4 license output with 11 attributes
```

```
- length: { license: 11 }
```

```
## bwc for licenses format
```

```
- do:
```

```
  license.post:
```

```
    acknowledge: true
```

```
    body: |
```

```
      {"licenses":[{"uid":"893361dc-9749-4997-93cb-
802e3d7fa4a8","type":"gold","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"ma
x_nodes":1,"issued_to":"issued_to","issuer":"issuer","signature":"AAAAAwAAAA2T3vqdBbetKQaBgxipAAAB
mC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZwUzRxVk1PSmkxakxZdW5IMlhlTHNoN1N2M
XMvRFk4d3JTZEEx3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprZWZSQi9iNmRQNkw1SlpLN0lDalZCS09
5MXRGN1IIZlpYcVVTTnFrcTE2dzhJZmZrdFQrN3JQeGwxb0U0MXZ0dDJHSERiZTVLOHNzSDBYwnpoZEph
ZHBEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNWGM5TUhQV2plaUo4Q1JOUml4MXNuL0pSOE
hQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28zSmRnVkF1b2JSQkFLV2VXUmVHNDZ2R3o2V
E1qbVNQS2lxOHN5bUErZINIWkZSVmZiWEtaSU9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6ldMbmMzS
```

```
GtQc3FWOTgzZ3ZUCxMvQkt2RUZwMFJnZzlvL2d2bDRWUzh6UG5pdENGWFRreXNKNkE9PQAAAQB7pG
FYgawfLm9zzT80LvcLHjy1t/v2uSzCQWKdXXhrwSy4WrAH2uK/+PEiQ7aEpW5erLsyJ5KLA6OEZJDaP7r+mj
OPuLt0++15j4DMn7ybMzOPHXWbc6LETE3+pp0GZPYOmwsDkZSRUegTtciR2R6z+mdnGrhOYm80y08KvW
whdU/DHw41MK7ePo6tq73Nz49y9IDgt9fxA0t4ggEBPbnTDDbVQ25AjauY8sa0M5eg9rDDRayw1KamYWwra8
PIGX+2YjhtUeQhmlCPdlxc9wECJ7/knPss5bI3ZoXQR3fyXhjcXNnHEIsblqLrMCal3pLxs7II+KPYMa2ZYL/am4
P" ]}]}
```

```
- match: { license_status: "valid" }
```

```
- do:
  license.get: { }
```

```
- length: { license: 11 }
```

```
## license version: 1.x
```

```
- do:
  license.post:
    acknowledge: true
    body: |
      { "licenses": [ { "uid": "893361dc-9749-4997-93cb-
802e3d7fa4a8", "type": "subscription", "subscription_type": "gold", "issue_date_in_millis": 1411948800000, "feature": "
shield", "expiry_date_in_millis": 1914278399999, "max_nodes": 1, "issued_to": "issuedTo", "issuer": "issuer", "signature
": "AAAAAQAAAA0LVAYwWpSH94cyXr4zAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVo
MVZwUzRxVkl1PSmkxakxZdW5IMlhITHNoN1N2MXMvRFk4d3JTZEEx3R3RRZ0pzU3lobWJKZnQvSEFva0pp
THBkWkprZWZSQi9iNmRQNkw1SlpLN0lDalZCS095MXRGN1IIZlpYcVVTnFrcTE2dzhJZmZrdFQrN3JQeG
wx0U0MXZ0dDJHSERiZTVLOHNzSDBYwNpoZEphZHBEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNi
WktNWGM5TUhQV2plaUo4Q1JOUm14MXNuL0pSOEhQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K
055c28zSmRnVkf1b2JSQkFLV2VXUmVHNDZ2R3o2VE1qbVNQS2lxOHN5bUErZlNIWkZSVmZiWEtaSU9w
TTJENDVvT1NCYklacUYyK2FwRW9xa0t6dldMbmMzSGtQc3FWOTgzZ3ZUCxMvQkt2RUZwMFJnZzlvL2d2
bDRWUzh6UG5pdENGWFRreXNKNkE9PQAAAQA4qsc/URRZVdFoLwgy9dqybYEQW8YLkiAyPV5XHHH
dtk-dtZiepiNEDkUXhSX2waVJlsNRF8/4kqplDfwNoD2TUM8fTgiIfiSiZYGDTGST+yW/5eAveEU5J5v1liBN27b
wkqL+V4YAa0Tcm7NKKwjScWKAHiTU3vF8chPkGfCHE0kQgVwPC9RE82pTw0s6/uR4PFLGNFfqPM0uiE5n
ucfVrtj89JQiO/KA/7ZyFbo7VTNXxZQt7T7rZWBCP9KIjptXzcWuk08Q5S+rSoJNYbFo3HGKtrCVsRz/55rceNtd
wKKXu1IwnSeir4I1/KLduQtFLy0+1th87VS8T88UT" ]}]}
```

```
- match: { license_status: "valid" }
```

```
- do:
  license.get: { }
```

```
- length: { license:
11 }
```

```
## multiple licenses version: 1.x
```

```
- do:
  license.post:
    acknowledge: true
    body: |
```

```
    {"licenses":[{"uid":"893361dc-9749-4997-93cb-802e3d7fa4a8","type":"internal","subscription_type":"none","issue_date_in_millis":1411948800000,"feature":"shield","expiry_date_in_millis":1440892799999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAQAAAA04Q4ky3rFyyWLFkytEAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZwUzRxVk1PSmkxakxZdW5IMlhlTHNoN1N2MXMvRFk4d3JTZEx3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWKprZWZSQi9iNmRQNkw1SlpLN0lDalZCS095MXRGN1lIZlpYcVVTtnFrcTE2dzhJZmZrdFQrN3JQeGwxb0U0MXZ0dDJHSERiZTVLOHNzSDBYwnpoZEphZHBEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNWGM5TUhQV2plaUo4Q1JOUmI4MXNuL0pSOEhQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MwK2K055c28zSmRnVkf1b2JSQkFLV2VXUmVHNDZ2R3o2VE1qbVNQS2lxOHN5bUErZINIWkZSVmZiWEtaSU9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6dldMbmMzSGtQc3FWOTgzZ3ZUcXMvQkt2RUZwMFJnZzlvL2d2bDRWUzh6UG5pdENGWFRreXNKNkE9PQAAQbXmVUMn4h2E4R4TQMijahTxQj4LPQO4f1M79UxX/XkDIgCgH+J5pRHx08OtTRPsFL1IED+h+PIXx307Vo+PNDsOxrWvoYZeYBkOLAO3ny9vhQga+52jYhMxIuFrT9xbcSCSNpMhGojgOIPU2WgiopVdVcimo1+Gk8VtkIPB1wPwFzfOjOnPgp/Icx3WYpfkeAUUOyWUYiFIBAE4bnz84iF+XwLkBgYk6aHF25ECBtdb/Uruhcm9+jEFpoIEUtCouvVk9C+NJZ4OickV4xpRgaRG2x9PONH8ZN0QGHgYhJGbisocXuDmlLsyVxqxfMu3n/r7/jdsEJSjAlSrsLDOu6H"}],{"uid":"893361dc-9749-4997-93cb-802e3dofh7aa","type":"internal","subscription_type":"none","issue_date_in_millis":1443484800000,"feature":"waterher","expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAQAAAA0Sc90guRIaQEmgLvMnAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZwUzRxVk1PSmkxakxZdW5IMlhlTHNoN1N2MXMvRFk4d3JTZEx3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWKprZWZSQi9iNmRQNkw1SlpLN0lDalZCS095MXRGN1lIZlpYcVVTtnFrcTE2dzhJZmZrdFQrN3JQeGwxb0U0MXZ0dDJHSERiZTVLOHNzSDBYwnpoZEphZHBEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNWGM5TUhQV2plaUo4Q1JOUmI4MXNuL0pSOEhQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MwK2K055c28zSmRnVkf1b2JSQkFLV2VXUmVHNDZ2R3o2VE1qbVNQS2lxOHN5bUErZINIWkZSVmZiWEtaSU9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6dldMbmMzSGtQc3FWOTgzZ3ZUcXMvQkt2RUZwMFJnZzlvL2d2bDRWUzh6UG5pdENGWFRreXNKNkE9PQAAQcQ94dju0pnDZR3Uuyipi0ic3aQJ+nvVqe+U8u79Dga5n1qIjcHDh7HvIBJEkF+tnVPlo/PXV/x7BZSwVY1PVerit+6rYix1yuHEgqwxmx/VdRICjCaZM6tk0Ob4dZCPv6Ebn2Mmk89KHC/PwiLpQf6QfV/Pkpa8k2A3ORJmvYSDvXhe6tCs8dq4ebrsFxqrZjwWh5CZSpzqqZBFXIngDv2N0hHhpGlueRszD0JJ5dfEL5ZA1DDOrgO9OJVeJSHyRqe1L5QRUNdXPVfS+EAG0Dd1cNdJ/sMpYCPnVjBw6iq2/YgM3cuztsXVBY7ij4WnoP3ce7Zjs9TwHn+IqzftC6"}]}
```

```
- match: { license_status: "valid" }
```

```
- do:
```

```
  license.get: {}
```

```
- length: { license: 11 }
```

```
- match: { license.uid: "893361dc-9749-4997-93cb-802e3dofh7aa" }
```

```
---
```

```
"Should revert back to basic license after license deletion":
```

```
- do:
```

```
  license.delete: {}
```

```
- match: { acknowledged: true }
```

```
- do:
```

```
  license.get: {}
```

```
- match: { license.type: "basic" }
```

```
- set: { license.uid: id }

- do: # delete an existing basic license is a no-op
  license.delete: {}

- do:
  license.get:
  {}

- match: { license.uid: $id }
```

---

"Should install a feature type license":

```
# VERSION_NO_FEATURE_TYPE license version

- do:
  license.post:
    acknowledge: true
    body: |
      {"license": {"uid": "893361dc-9749-4997-93cb-
802e3d7fa4a8", "type": "gold", "issue_date_in_millis": 1411948800000, "expiry_date_in_millis": 1914278399999, "max_nodes": 1, "issued_to": "issued_to", "issuer": "issuer", "signature": "AAAAAgAAAA3U8+YmnnvC+CWsv/mRAA
ABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZwUzRxVk1PSmkxakxZdW5IMlhITHNoN1N
2MXMvRFk4d3JTZEx3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprZWZSQi9iNmRQNkw1SlpLN0IDalZC
S095MXRGN1IIZlpYcVVTtnFrcTE2dzhJZmZrdFQrN3JQeGwx0U0MXZ0dDJHSERiZTVLOHNzSDBYwnpoZ
EphZHBEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNWGM5TUhQV2plaUo4Q1JOUml4MXNuL0pS
OEhQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28zSmRnVkf1b2JSQkFLV2VXUmVHNDZ2R3
o2VE1qbVNQS2lxOHN5bUErZINIWkZSVmZIWEtaSU9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6ldMbm
MzSGtQc3FWOTgzZ3ZUCXmVQkt2RUZwMFJnZzlvL2d2bDRWUzh6UG5pdENGWFRreXNKNkE9PQAAQB
e8GfzDm6T537Iuuvjtb3xK5dvg0K5NQapv+rczWcQFxcGuzbF8plkgetP1aAGZP4uRESQPMIOCsx4d0UqqAm
9f7GbBQ3l93P+PogInPFeEH9NvOmaAQovmxVM9SE6DsDqlX4cXSO+bgWpXPTd2LmpoQc1fXd6BZ8GeuyYp
VHVkp9hVU0tAYjw6HzYOE7+zuO1oJYOxElqy66AnIfkvHrvni+flym3tE7tDTgsDRaz7W3iBhaqiSntEqabEkvH
dPHQdSR99XGaEvnHO1paK01/35iZF6OXHsF7CCj+558GRXiVxzueOe7TsGSSst8g7YjZwV9bRCyU7oB4B/nidg
I"}}
```

```
- match: { license_status: "valid" }
```

```
- do:
  license.get: {}
```

```
- length: { license: 11 }
```

---

"Cannot start basic":

```
- do:
  catch: bad_request
  license.post:
    acknowledge: true
    body: |
      {"license": {"uid": "893361dc-9749-4997-93cb-
```

```
802e3d7fa4a8","type":"basic","issue_date_in_millis":141194880000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAgAAAA0IKPZ0a7aZquUltho/AAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZwUzRxVk1PSmkxakxZdW5IMlhlTHNoN1N2MXMvRFk4d3JTZEx3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprZWZSQi9iNmRQNkw1SlpLN0IDalZCS095MXRGN1iIZlpYcVVTnFrcTE2dzhJZmZrdFQrN3JQeGwx0U0MXZ0dDJHSERiZTVLOHNzSDBYwnpoZEphZHBEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNWGM5TUUhQV2plaUo4Q1JOUml4MXNuL0pSOEhQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28zSmRnVkF1b2JSQkFLV2VXUml4VHNDZ2R3o2VE1qbVNQS2lxOHn5bUErZINIwkZSVmZiWEtaSU9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6dldMbmMzSGtQc3FWOTgzZ3ZUcXMvQkt2RUZwMFJnZzlvL2d2bDRWUzh6UG5pdENGWFRreXNKNkE9PQAAAQAALuQ44S3IG6SzoLcXVJ6Z4CIXORDrYQ+wdLCEey0XdujTslAOj+k+vNgo6wauC7Uswi01esHu4lb5IgpvKy7RRCbh5bj/z2ubu2qMJqopp9BQyD7VQjVfqmG6seUMJwJ1a5Avvm9r41YPSpcrri3bKK2e1l6jK6N8ibCvnTyY/XkYGCJrBWT SJepDbg6ErbyodrZ37x1StLbPWcNAkmweyHjDJnvYnbeZZO7A3NmubXZjW7Ttf8/YwQyE00PqMcl7fVPY3hkKpAeHf8aaJbqkKYbqZuER3EWJX7ZvLVb1dNdNg8aXRn7YrkQcYwWgptYQpfV+D7yEJ4j5muAEoler"}}
```

```
- match: { error.root_cause.0.reason: 'Installing basic licenses is no longer allowed. Use the POST /_license/start_basic API to install a basic license that does not expire.' }
```

```
---
```

```
"Should fail gracefully when body content is not provided":
```

```
- do:
```

```
  catch:
```

```
  bad_request
```

```
    license.post:
```

```
      acknowledge: true
```

```
- match: { error.root_cause.0.reason: 'The license must be provided in the request body' }
```

```
---
```

```
"Current license is trial means not eligible to start trial":
```

```
- do:
```

```
  license.get_trial_status: { }
```

```
- match: { eligible_to_start_trial: false }
```

```
- do:
```

```
  license.post_start_basic:
```

```
    acknowledge: true
```

```
- match: { basic_was_started: true }
```

```
- do:
```

```
  license.get_trial_status: { }
```

```
- match: { eligible_to_start_trial: false }
```

```
- do:
```

```
  catch: forbidden
```

```
  license.post_start_trial:
```

```

    acknowledge: true

- match: { trial_was_started: false }
- match: { error_message: "Operation failed: Trial was already activated." }
---
"Trial license cannot be basic":
- do:
    catch: bad_request
    license.post_start_trial:
        type: "basic"
        acknowledge: true
---
"Can start basic license if do not already have basic":
- do:
    license.get_basic_status: {}

- match: { eligible_to_start_basic:
true }

- do:
    license.post_start_basic:
        acknowledge: true

- match: { basic_was_started: true }
- match: { acknowledged: true }

- do:
    license.get_basic_status: {}

- match: { eligible_to_start_basic: false }

- do:
    catch: forbidden
    license.post_start_basic: {}

- match: { basic_was_started: false }
- match: { acknowledged: true }
- match: { error_message: "Operation failed: Current license is basic." }
---
"Must acknowledge to start basic":
- do:
    license.post_start_basic: {}

- match: { basic_was_started: false }
- match: { acknowledged: false }
- match: { error_message: "Operation failed: Needs acknowledgement." }
ICU License - ICU 1.8.1 and later

```

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```
[role="xpack"]
[testenv="basic"]
[[get-license]]
==== Get license API
++++
<titleabbrev>Get license</titleabbrev>
++++
```

This API enables you to retrieve licensing information.

```
[float]
===== Request
```

```
`GET /_license`
```

```
[float]
===== Description
```

This API returns information about the type of license, when it was issued, and when it expires, for example.

For more information about the different types of licenses, see <https://www.elastic.co/subscriptions>.

```
[float]
===== Query Parameters
```

```
`local`::
(boolean) Specifies whether to retrieve local information. The default value is `false`, which means the information is retrieved from the master node.
```

```
[float]
===== Authorization
```



You must have `monitor` cluster privileges to use this API.

For more information, see <<security-privileges>>.

[float]

==== Examples

The following example provides information about a trial license:

[source,console]

```
-----  
GET /_license  
-----
```

[source,console-result]

```
-----  
{  
  "license" : {  
    "status" : "active",  
    "uid" : "cbff45e7-c553-41f7-ae4f-9205eabd80xx",  
    "type" : "trial",  
    "issue_date" : "2018-10-20T22:05:12.332Z",  
    "issue_date_in_millis" : 1540073112332,  
    "expiry_date" : "2018-11-19T22:05:12.332Z",  
    "expiry_date_in_millis" : 1542665112332,  
    "max_nodes" : 1000,  
    "issued_to" : "test",  
    "issuer" : "elasticsearch",  
    "start_date_in_millis" : -1  
  }  
}
```

```
-----  
// TESTRESPONSE[s/"cbff45e7-c553-41f7-ae4f-9205eabd80xx"/$body.license.uid/  
// TESTRESPONSE[s/"basic"/$body.license.type/  
// TESTRESPONSE[s/"2018-10-20T22:05:12.332Z"/$body.license.issue_date/  
// TESTRESPONSE[s/1540073112332/$body.license.issue_date_in_millis/  
// TESTRESPONSE[s/"2018-11-19T22:05:12.332Z"/$body.license.expiry_date/  
// TESTRESPONSE[s/1542665112332/$body.license.expiry_date_in_millis/  
// TESTRESPONSE[s/1000/$body.license.max_nodes/  
//  
// TESTRESPONSE[s/"test"/$body.license.issued_to/  
// TESTRESPONSE[s/"elasticsearch"/$body.license.issuer/
```

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# 1.443 json-parse-even-better-errors 2.3.1

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# 1.452 pax-utils 1.3.2-r0

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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# 1.462 annotations 2.0.1

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# 1.466 colors.js 1.3.3

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## 1.468 read-package-json 2.1.2

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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/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-  
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 \* /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-  
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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/path/ScanPathToken.java  
 \* /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/spi/mapper/JacksonMappingProvider.java  
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\* /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

## 1.470 react 17.0.2

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## 1.471 react-dom 17.0.2

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute
it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

#### Preamble

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This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

#### When

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To protect your rights, we need to make restrictions that forbid

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a



work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

## 1.473 libgcrypt 1.8.5-5ubuntu1.1

## 1.473.1 Available under license :

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Version 2, June 1991

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

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## 1.474 guava 31.0-jre

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- \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/ParametricNullness.java
- \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/eventbus/ElementTypesAreNonnullByDefault.java
- \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/net/ElementTypesAreNonnullByDefault.java
- \*
  - /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/ElementTypesAreNonnullByDefault.java
  - \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/reflect/ParametricNullness.java
  - \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/ParametricNullness.java
  - \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/eventbus/ParametricNullness.java
  - \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/html/ParametricNullness.java
  - \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/primitives/ParametricNullness.java
  - \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/math/ParametricNullness.java
  - \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/ElementTypesAreNonnullByDefault.java
  - \*
    - /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/xml/ParametricNullness.java
    - \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/ElementTypesAreNonnullByDefault.java
    - \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/xml/ElementTypesAreNonnullByDefault.java
    - \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/ParametricNullness.java
    - \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/ParametricNullness.java
    - \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ParametricNullness.java
    - \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-

```
jar/com/google/common/util/concurrent/ParametricNullness.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/reflect/ElementTypesAreNonnullByDefault.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/html/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/hash/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/escape/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/io/ParametricNullness.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/primitives/ElementTypesAreNonnullByDefault.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/math/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/escape/ParametricNullness.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/net/ParametricNullness.java
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
```

jar/com/google/common/util/concurrent/InterruptibleTask.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/io/ReaderInputStream.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/util/concurrent/AsyncCallable.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/hash/LittleEndianByteArray.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/util/concurrent/Platform.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ConsumingQueueIterator.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/hash/MacHashFunction.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/hash/FarmHashFingerprint64.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/util/concurrent/CombinedFuture.java  
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jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/util/concurrent/ListeningExecutorService.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ContiguousSet.java

\*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/annotations/Beta.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/primitives/package-info.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-



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jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/net/package-
info.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/Strings.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/annotations/package-info.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
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```
*/
```

```
/**
```

```
* Returns an array containing all of the elements in the specified collection. This method
```

```
* returns the elements in the order they are returned by the collection's iterator. The returned
```

```
* array is "safe" in that no references to it are maintained by the collection. The caller is
```

```
* thus free to modify the returned
```

```
array.
```

```
*
```

```
* <p>This method assumes that the collection size doesn't change while the method is running.
```

```
*
```

```
* <p>TODO(kevinb): support concurrently modified collections?
```

```
*
```

```
* @param c the collection for which to return an array of elements
```

\*/

Found in path(s):

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ObjectArrays.java

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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/CompactHashMap.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java

\*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/TransformedListIterator.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/DescendingMultiset.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/FilteredMultimap.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingDeque.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingNavigableSet.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingImmutableList.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/SortedMultisetBridge.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/TransformedIterator.java

\*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractNavigableMap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/EvictingQueue.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingImmutableMap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AllEqualOrdering.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/FilteredSetMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableEnumMap.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingNavigableMap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/DescendingImmutableSortedSet.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/CompactLinkedHashMap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/FilteredEntrySetMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/FilteredEntryMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/CompactLinkedHashSet.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/CompactHashSet.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/TreeTraverser.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/RegularImmutableAsList.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java  
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/\*\*

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

\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/primitives/IntsMethodsForWeb.java

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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/JdkBackedImmutableMultiset.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/util/concurrent/ExecutionSequencer.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/JdkBackedImmutableSet.java

\*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/ImmutableSupplier.java

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Found in path(s):

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/package-info.java

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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableSortedAsList.java

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 express  
 \* or implied. See the License for the specific language governing permissions and limitations under  
 \* the License.  
 \*/  
 /\*  
 \* 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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 \* Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and released to  
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 the public domain, as explained at <http://creativecommons.org/publicdomain/zero/1.0/>  
 \*  
 \* Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.  
 \*/

Found in path(s):

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/util/concurrent/MoreExecutors.java

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 \* limitations under the License.  
 \*/  
 /\*\*  
 \* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}  
 \* key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy  
 \* version.  
 \*/

```
* @throws UnsupportedOperationException always
* @deprecated <b>Pass a key of type { @code Comparable }
to use { @link
*   ImmutableSortedMap#of(Comparable, Object)}.</b>
*/
```

Found in path(s):

```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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* the License.
```

```
*/
```

```
/**
```

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

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/IndexedImmutableSet.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/JdkBackedImmutableBiMap.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/BaseImmutableMultimap.java

\*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/JdkBackedImmutableMap.java

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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/NullnessCasts.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/NullnessCasts.java

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\*/  
/\*\*  
\* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular  
\* version.  
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jar/com/google/common/primitives/FloatsMethodsForWeb.java  
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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/SortedSetMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/EnumBiMap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ForwardingObject.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Lists.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/package-info.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ArrayListMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ClassToInstanceMap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/CompoundOrdering.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Ordering.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Iterators.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ReverseOrdering.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/BiMap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/TreeMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingMapEntry.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/LinkedHashMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Maps.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ByFunctionOrdering.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ReverseNaturalOrdering.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/LinkedHashMultiset.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableSet.java  
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/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Multimaps.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/SetMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/UsingToStringOrdering.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/NullsLastOrdering.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Multimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/HashMultiset.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingQueue.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Interner.java  
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/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/LexicographicalOrdering.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractMapBasedMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-

jar/com/google/common/collect/AbstractSortedSetMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ForwardingCollection.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/Multisets.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/HashMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ForwardingListIterator.java  
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jar/com/google/common/collect/AbstractIterator.java  
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/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ComparatorOrdering.java  
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jar/com/google/common/collect/EnumHashBiMap.java  
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jar/com/google/common/collect/LinkedListMultimap.java  
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jar/com/google/common/collect/ForwardingList.java  
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jar/com/google/common/collect/ForwardingSortedSet.java  
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jar/com/google/common/collect/MutableClassToInstanceMap.java  
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/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/MapDifference.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ExplicitOrdering.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ImmutableList.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ListMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/NullsFirstOrdering.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/RegularImmutableSet.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/TreeMultiset.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/AbstractBiMap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ForwardingIterator.java  
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/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractMapEntry.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractMultiset.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractMapBasedMultiset.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingSet.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/NaturalOrdering.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingConcurrentMap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Multiset.java  
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/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Synchronized.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ConcurrentHashMultiset.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractListMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractSetMultimap.java  
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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/SingletonImmutableSet.java  
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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/CollectSpliterators.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java

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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Stopwatch.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/primitives/Bytes.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/MultiReader.java

\*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/SequentialExecutor.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/primitives/Floats.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Converter.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/primitives/Ints.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ListenableFutureTask.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/FileBackedOutputStream.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-

jar/com/google/common/escape/UnicodeEscaper.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/escape/Escaper.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/base/CharMatcher.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/net/InetAddresses.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/primitives/Chars.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/FluentIterable.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/primitives/Shorts.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Joiner.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/net/PercentEscaper.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/primitives/Doubles.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/primitives/Longs.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/base/internal/Finalizer.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/primitives/Booleans.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/thirdparty/publicsuffix/TrieParser.java  
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jar/com/google/common/collect/Streams.java

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jar/com/google/common/primitives/Platform.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-

jar/com/google/common/util/concurrent/Internal.java

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jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-

jar/com/google/common/math/BigDecimalMath.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-

jar/com/google/common/io/Java8Compatibility.java

\*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Java8Compatibility.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/Java8Compatibility.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/math/ToDoubleRounder.java  
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 */
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
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 */
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- \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
- \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ListenerCallQueue.java
- \*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/eventbus/Dispatcher.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/eventbus/Subscriber.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/math/Quantiles.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/eventbus/SubscriberRegistry.java

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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/CompactHashing.java

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jar/com/google/common/collect/MoreCollectors.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/AbstractValueGraph.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/RangeGwtSerializationDependencies.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/DirectedNetworkConnections.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/GraphConnections.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/ElementOrder.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/MapIteratorCache.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/Comparators.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/MapRetrievalCache.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/ValueGraphBuilder.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/NetworkBuilder.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/GraphBuilder.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/ForwardingValueGraph.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/UndirectedMultiNetworkConnections.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-

jar/com/google/common/graph/DirectedMultiNetworkConnections.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/MutableValueGraph.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/StandardMutableGraph.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/AbstractGraphBuilder.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/StandardNetwork.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/CollectCollectors.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/StandardValueGraph.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/GraphConstants.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/EdgesConnecting.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/AbstractNetwork.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/NetworkConnections.java  
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/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/UndirectedGraphConnections.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/EndpointPairIterator.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/AbstractGraph.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/ForwardingGraph.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/StandardMutableValueGraph.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java  
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jar/com/google/common/graph/DirectedGraphConnections.java  
\*  
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jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/ImmutableValueGraph.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/graph/EndpointPair.java

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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/ValueGraph.java
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/*
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* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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jar/com/google/common/reflect/Reflection.java

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/\*\*

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

\*/

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jar/com/google/common/primitives/DoublesMethodsForWeb.java

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jar/com/google/common/hash/AbstractHashFunction.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/util/concurrent/ForwardingLock.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/primitives/ImmutableLongArray.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/primitives/ImmutableDoubleArray.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/util/concurrent/ForwardingCondition.java  
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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/base/VerifyException.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/hash/HashingInputStream.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Verify.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java

```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
*
```

```
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/io/CharSequenceReader.java
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*/
/**
* Holder for web specializations of methods of { @code Shorts}. Intended to be empty for regular
* version.
*/
```

```
Found in path(s):
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/primitives/ShortsMethodsForWeb.java
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Found in path(s):

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/util/concurrent/ForwardingFuture.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/MapMakerInternalMap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/util/concurrent/ForwardingFluentFuture.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/util/concurrent/Service.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/base/Splitter.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/primitives/SignedBytes.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/RegularImmutableTable.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/cache/LocalCache.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/annotations/GwtIncompatible.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/escape/Escapers.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/util/concurrent/ForwardingListenableFuture.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/io/LineProcessor.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/util/concurrent/AbstractIdleService.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/xml/XmlEscapers.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/cache/CacheBuilder.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/net/InternetDomainName.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-



```

jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/cache/ReferenceEntry.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/AbstractService.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/Platform.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/annotations/GwtCompatible.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/html/HtmlEscapers.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/primitives/UnsignedBytes.java

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```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ImmutableMap.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/RegularImmutableMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/SingletonImmutableBiMap.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/Range.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
```

jar/com/google/common/collect/ImmutableMapKeySet.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/UnmodifiableIterator.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ImmutableMapEntrySet.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/EmptyImmutableListMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/Serialization.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ImmutableMapValues.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ImmutableCollection.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ImmutableMultiset.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ImmutableListMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ImmutableBiMap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ImmutableMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/Table.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/HashBasedTable.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/RegularImmutableBiMap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/StandardRowSortedTable.java  
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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/Graph.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/ImmutableGraph.java

\*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/MutableGraph.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/PredecessorsFunction.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/Graphs.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/RecursiveDeleteOption.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/InsecureRecursiveDeleteException.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/SuccessorsFunction.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/Network.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/ImmutableNetwork.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/TopKSelector.java

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info.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/AbstractByteHasher.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/SipHashFunction.java

\*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/LongAddable.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/LongAddables.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/escape/package-info.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/ByteSink.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/CharSource.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/LongAddable.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/BaseEncoding.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/math/LinearTransformation.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/reflect/ClassPath.java

\*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/xml/package-info.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/LongAddables.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/ByteSource.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ServiceManager.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/math/Stats.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableRangeMap.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/RateLimiter.java

\*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/math/StatsAccumulator.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/SmoothRateLimiter.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/reflect/TypeCapture.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-

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jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/reflect/package-
info.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/reflect/Parameter.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/io/CharSink.java
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```

```
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```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/hash/Striped64.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
```

jar/com/google/common/cache/LongAdder.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/hash/LongAdder.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/cache/Striped64.java  
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jar/com/google/common/util/concurrent/ServiceManagerBridge.java  
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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ForwardingSetMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-

jar/com/google/common/collect/ForwardingListMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/MinMaxPriorityQueue.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/AbstractSequentialIterator.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/SortedMapDifference.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ForwardingSortedSetMultimap.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/RowSortedTable.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/UnmodifiableListIterator.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ForwardingImmutableCollection.java  
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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/math/package-  
info.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/cache/Cache.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/base/FunctionalEquivalence.java

\*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/cache/CacheLoader.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/hash/Hasher.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/reflect/Types.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-



jar/com/google/common/math/DoubleUtils.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/RegularImmutableMultiset.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/hash/Funnels.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/math/BigIntegerMath.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/primitives/UnsignedLong.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/base/Enums.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/cache/LoadingCache.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/net/HttpHeaders.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/cache/AbstractCache.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/util/concurrent/AbstractScheduledService.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/Queues.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/base/PairwiseEquivalence.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/cache/RemovalNotification.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/hash/AbstractCompositeHashFunction.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/hash/Funnel.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/net/MediaType.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/cache/Weigher.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/hash/PrimitiveSink.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/primitives/UnsignedInts.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/hash/MessageDigestHashFunction.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/cache/ForwardingCache.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/primitives/UnsignedInteger.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/cache/RemovalCause.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/base/Optional.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/collect/BoundType.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/math/IntMath.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/cache/CacheBuilderSpec.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/cache/RemovalListener.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/hash/AbstractHasher.java  
 \*  
 /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/collect/TreeRangeSet.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/reflect/TypeParameter.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/cache/ForwardingLoadingCache.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/util/concurrent/UncheckedExecutionException.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/collect/DescendingImmutableSortedMultiset.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/base/Present.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/collect/EmptyContiguousSet.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/hash/Crc3cHashFunction.java  
 \*  
 /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/hash/AbstractNonStreamingHashFunction.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/math/MathPreconditions.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/util/concurrent/ExecutionError.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/hash/HashFunction.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/cache/CacheStats.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
 jar/com/google/common/hash/HashingOutputStream.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/RemovalListeners.java

\*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractSortedMultiset.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/FutureCallback.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Absent.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/BloomFilterStrategies.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/primitives/UnsignedLongs.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/math/DoubleMath.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/RegularContiguousSet.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/AbstractLoadingCache.java

\*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/math/LongMath.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingExecutorService.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/Murmur3\_128HashFunction.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/AsyncFunction.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/net/HostAndPort.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/package-info.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Ticker.java

\*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/HashCode.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/Hashing.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/BloomFilter.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-

jar/com/google/common/primitives/ParseRequest.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/hash/Murmur3\_32HashFunction.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/hash/AbstractStreamingHasher.java  
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jar/com/google/common/collect/SortedMultisets.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/SortedMultiset.java  
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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/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/util/concurrent/Partially.java

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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/SortedIterables.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/SortedIterable.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/RangeSet.java

\*

/\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ForwardingSortedMultiset.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ImmutableSortedMultiset.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/AbstractRangeSet.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/Count.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/RegularImmutableSortedMultiset.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/GeneralRange.java

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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/TimeLimiter.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/AbstractTransformFuture.java

\*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/CaseFormat.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/PatternFilenameFilter.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/AppendableWriter.java

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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/CollectionFuture.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/escape/CharEscaperBuilder.java

\*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java

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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
*
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/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/EnumMultiset.java
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 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/CountingOutputStream.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/FinalizableReferenceQueue.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/eventbus/Subscribe.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/HashBiMap.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/MultiInputStream.java  
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 /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/package-info.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Preconditions.java  
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 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/Flushables.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/LineReader.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Functions.java  
 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/LittleEndianDataInputStream.java  
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 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/ByteStreams.java  
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 \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Charsets.java  
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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Defaults.java  
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/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/FinalizableWeakReference.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Supplier.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/CountingInputStream.java  
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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/AbstractFuture.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Predicate.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ListenableFuture.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/AbstractIterator.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/primitives/Primitives.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Objects.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/FinalizableReference.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/Files.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/package-info.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Predicates.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Throwables.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/eventbus/package-info.java  
\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Function.java  
\*  
/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/Resources.java  
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jar/com/google/common/graph/Traverser.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/AbstractBaseGraph.java
*
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/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ClosingFuture.java

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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/EmptyImmutableSetMultimap.java

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/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ArrayTable.java

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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/TableCollectors.java

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\*

/opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/SingletonImmutableList.java

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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ComparisonChain.java

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\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/SingletonImmutableTable.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/DiscreteDomain.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableClassToInstanceMap.java

\* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/RegularImmutableList.java

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- \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/JdkPattern.java
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- /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/CommonMatcher.java

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- \* /opt/cola/permits/1208984113\_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableMapEntry.java

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## 1.476 json-smart 2.3

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\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/writer/DefaultMapper.java

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\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONStyle.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserInputStream.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParser.java

\*

\*/opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserMemory.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/writer/CompressorMapper.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONUtil.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONStreamAwareEx.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/ParseException.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONValue.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/writer/FakeMapper.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONAwareEx.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/writer/BeansMapper.java

```

*
/opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/parser/JSONParserByteArray.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/writer/JsonReaderI.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/writer/CollectionMapper.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/JSONStreamAware.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONNavi.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/parser/JSONParserStream.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONAware.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/writer/DefaultMapperOrdered.java
*
/opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONObject.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/writer/JsonReader.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONArray.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JStylerObj.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/writer/DefaultMapperCollection.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/parser/JSONParserString.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/writer/ArraysMapper.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/parser/JSONParserBase.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/parser/JSONParserReader.java

```

# 1.477 chill-java 0.7.6

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\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/ArraysAsListSerializer.java

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jar/com/twitter/chill/java/PriorityQueueSerializer.java

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\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-  
jar/com/twitter/chill/java/PackageRegistrar.java

\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-  
jar/com/twitter/chill/java/UUIDSerializer.java

\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-  
jar/com/twitter/chill/java/URISerializer.java

\*

/opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/config/Config.java

\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-  
jar/com/twitter/chill/config/ReflectingInstantiator.java

\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-  
jar/com/twitter/chill/SingleDefaultRegistrar.java

\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/config/ConfigurationException.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/ReflectingRegistrar.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/IterableRegistrar.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/InetAddressSerializer.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/SimpleDateFormatSerializer.java  
\*  
/opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/BitSetSerializer.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/SqlTimeSerializer.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/SingleRegistrar.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/config/JavaMapConfig.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/ResourcePool.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/ReflectingDefaultRegistrar.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/KryoPool.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/SqlDateSerializer.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/ClassRegistrar.java  
\*  
/opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/TimestampSerializer.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/IterableRegistrarSerializer.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/LocaleSerializer.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/SerDeState.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/RegexSerializer.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/KryoInstantiator.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/IKryoRegistrar.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/config/ConfiguredInstantiator.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  
 \* encodeBytes( bytes, options ) 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>,  
 \* 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 <http://www.powerset.com/>
- \* for contributing the new Base64 dialects.
- \* </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 <http://iharder.net/base64>  
\* periodically to check for updates or to contribute improvements.  
\*  
\*  
\* @author Robert Harder  
\* @author rob@iharder.net  
\* @version 2.3.7  
\*/

Found in path(s):

\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/Base64.java  
No license file was found, but licenses were detected in source scan.

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 */
```

Found in path(s):

\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/UnmodifiableSortedMapSerializer.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/UnmodifiableMapSerializer.java  
\* /opt/cola/permits/1209651892\_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/UnmodifiableJavaCollectionSerializer.java  
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# 1.478 afero 1.0.5

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# 1.483 busybox 1.33.1-r6

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Julian Seward, Cambridge, UK.

[jseward@bzip.org](mailto:jseward@bzip.org)

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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## 1.484 json-schema 0.4.0

### 1.484.1 Available under license :

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```
$properties->license = License::schema();
```

Found in path(s):

```
* /opt/cola/permits/1231169960_1637613933.15/0/swaggest-php-json-schema-v0-4-0-0-gdfb0dd7-zip/swaggest-  
php-json-schema-dfb0dd7/src/SwaggerSchema/Info.php
```

## 1.485 icu 66.1-2ubuntu2.1

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```
## -*-makefile-*-
```

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```

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
```

```
## Copyright (c) 1999-2013, International Business Machines Corporation and
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```
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```

```
## Commands to generate dependency files
```

```
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
```

```
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

```
## Flags for position independent code
```

```
SHAREDLIBCFLAGS = -fPIC
```

```
SHAREDLIBCXXFLAGS = -fPIC
```

```
SHAREDLIBCPPFLAGS = -DPIC
```

```
## Additional flags when building libraries and with threads
```

```
THREADSCPPFLAGS = -D_REENTRANT
```

```
LIBCPPFLAGS =
```

```
## Compiler switch to embed a runtime search path
```

```
LD_RPATH=
```

```
LD_RPATH_PRE= -Wl,-rpath,
```

```

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O}: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

```

# Dependencies [i.e. map files] for the final library

BIR\_DEPS=

## Remove shared library 's'

STATIC\_PREFIX\_WHEN\_USED =

STATIC\_PREFIX =

## End BSD-specific setup

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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## 1.490 libsepol 2.9-3.el8

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\* /opt/cola/permits/1237623621\_1638828111.96/0/fis-components-isarray-0-0-1-0-g1f8a1d4-tar-gz/fis-components-isarray-84d6fbc/README.md

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## 1.576 wide-align 1.1.2

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- Baker v. Selden, 101 U.S. 99 (1879)

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Found in path(s):

\* /opt/cola/permits/1238138242\_1638902542.49/0/spdx-exceptions-2-1-0-tgz/package/README.md

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## 1.585 object-keys 1.0.12

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# 1.586 sdx-license-ids 3.0.5

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```
workflow "Test" {
  on = "push"
  resolves = ["npm"]
}

action "npm" {
  uses = "shinnn/actions-npm-alpine@1.0.0"
  args = "install-ci-test"
}
root = true

[*]
charset = utf-8
end_of_line = lf
indent_style = tab
tab_width = 2
insert_final_newline = true
trim_trailing_whitespace = true

[*.{md,yml}]
indent_style = space

[*.md]
trim_trailing_whitespace = false
* text=auto
# sdx-license-ids

[![npm version](https://img.shields.io/npm/v/sdx-license-ids.svg)](https://www.npmjs.com/package/sdx-license-ids)
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A list of [SPDX license](https://spdx.org/licenses/) identifiers

## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/sdx-license-ids/master/index.json), or
[use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

...

npm install sdx-license-ids
...

## [Node.js](https://nodejs.org/) API
```



```
### require('spdx-license-ids')
```

Type: `string[]`

All license IDs except for the currently deprecated ones.

```
```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]
```

```
ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=>
true
```

```
ids.includes('GPL-3.0'); //=> false
```
```

```
### require('spdx-license-ids/deprecated')
```

Type: `string[]`

Deprecated license IDs.

```
```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]
```

```
deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false
```

```
deprecatedIds.includes('GPL-3.0'); //=> true
```
```

```
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[\*.workflow]

indent\_style = space

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## 1.591 read-installed 4.0.3

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- \* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/util/DefaultClassResolver.java
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jar/com/esotericsoftware/kryo/serializers/DeflateSerializer.java

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Otherwise, if the work is a derivative of the Library, you may distribute the

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

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```



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\* /opt/cola/permits/1257203437\_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/HistogramLogReader.java

\* /opt/cola/permits/1257203437\_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/HistogramLogProcessor.java

\* /opt/cola/permits/1257203437\_1642787675.09/0/hdrhistogram-2-1-12-sources-

```
jar/org/HdrHistogram/PackedHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/SingleWriterDoubleRecorder.java
*
/opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/DoubleRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/DoubleHistogramIterationValue.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/AbstractHistogramIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/SynchronizedDoubleHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/PercentileIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/PackedConcurrentHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/DoubleRecordedValuesIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/DoubleAllValuesIterator.java
*
/opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/SingleWriterRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/DoubleLogarithmicIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/ShortCountsHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/EncodableHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/HistogramLogScanner.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/packedarray/PackedArrayRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/ConcurrentHistogram.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* Written by Gil Tene of Azul Systems, and released to the public domain,
* as explained at http://creativecommons.org/publicdomain/zero/1.0/
*
* @author Gil Tene
*/
```

Found in path(s):

```
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/AbstractHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
```

jar/org/HdrHistogram/DoubleHistogram.java

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/\*

\* package-info.java

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Found in path(s):

\* /opt/cola/permits/1257203437\_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/package-info.java

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\* Written by Gil Tene of Azul Systems, and released to the public domain,

\* as explained at <http://creativecommons.org/publicdomain/zero/1.0/>

\*

\* @author Gil Tene

\*/

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/1257203437\_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Version.java.template

## 1.628 xsdlib 2013.6.1

### 1.628.1 Available under license :

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Found in path(s):

- \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/LongType.java
- \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/BuiltinAtomicType.java
- \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/XSDatatypeImpl.java
- \*
- \*/opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ListType.java
- \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/xml/util/XmlChars.java
- \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Base64BinaryType.java
- \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/GYearMonthType.java
- \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IntegerDerivedType.java
- \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MinLengthFacet.java
- \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TypeIncubator.java
- \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DurationType.java
- \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TokenType.java
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/opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MaxLengthFacet.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarFormatter.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TimeType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NormalizedStringType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/HexBinaryType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnsignedLongType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IntegerValueType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/FinalComponent.java  
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/opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MaxExclusiveFacet.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnionType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MinExclusiveFacet.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/EnumerationFacet.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarParser.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/BooleanType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MaxInclusiveFacet.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NegativeIntegerType.java  
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/opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/IDateTimeValueType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/DateTimeFactory.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarFormatter.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/BigDateTimeValueType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/Util.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NumberType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/WhiteSpaceProcessor.java

\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MinInclusiveFacet.java  
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/opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DoubleType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/XmlNames.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ByteType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/WhiteSpaceFacet.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DataTypeWithLexicalConstraintFacet.java  
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\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/ITimeDurationValueType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/QnameValueType.java  
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\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/StringType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/DatabindableDatatype.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/EntityType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/SimpleURType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/regex/RegExp.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/FloatType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NmtokenType.java  
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/opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnsignedIntType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DateTimeBaseType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/BinaryValueType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Proxy.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/LengthFacet.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlib-2013-6-1-sources-

jar/com/sun/msv/datatype/xsd/datetime/CalendarFormatter.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/xsd/datetime/TimeZone.java  
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jar/com/sun/msv/datatype/ErrorDatatypeLibrary.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/xsd/ListValueType.java  
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/opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/xsd/FractionDigitsFacet.java  
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jar/com/sun/msv/datatype/xsd/UnicodeUtil.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/xsd/XSDatatype.java  
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jar/com/sun/msv/datatype/xsd/LanguageType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/xsd/RangeFacet.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarParser.java  
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jar/com/sun/msv/datatype/xsd/ErrorType.java  
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/opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/xsd/GMonthType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/xsd/ngimpl/DataTypeLibraryImpl.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/xsd/ShortType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/xsd/GMonthDayType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/xsd/NonPositiveIntegerType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/xsd/DateTimeType.java  
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jar/com/sun/msv/datatype/xsd/regex/JDKImpl.java  
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jar/com/sun/msv/datatype/xsd/FloatingNumberType.java  
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jar/com/sun/msv/datatype/SerializationContext.java  
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jar/com/sun/msv/datatype/xsd/AnyURIType.java

\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IntType.java  
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\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/PositiveIntegerType.java  
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\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/regex/XercesImpl.java  
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\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ConcreteType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Comparator.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/GYearType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NameType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DataTypeWithValueConstraintFacet.java  
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/opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnsignedByteType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/BigTimeDurationValueType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NonNegativeIntegerType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/CalendarParser.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/GDayType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IntegerType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IDType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/QnameType.java  
\*



/opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/BinaryBaseType.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IDREFTType.java  
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Found in path(s):

\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/package.html  
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\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/ParserForXMLSchema.java

\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/RegexParser.java

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\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/regexp/RangeToken.java

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jar/com/sun/msv/datatype/regexp/InternalImpl.java

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\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/regexp/message.properties

\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/regexp/message\_ja.properties

\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/regexp/message\_fr.properties

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\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/regexp/BMPattern.java  
\* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-

```
jar/com/sun/msv/datatype/regexp/RegularExpression.java
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/opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/Op.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/ParseException.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/Match.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/REUtil.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/Token.java
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jar/com/sun/msv/datatype/xsd/Messages_ja.properties
```

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  </developer>
  <developer>
    <url>https://github.com/mjpt777</url>
  </developer>
  <developer>
    <url>https://github.com/RichardWarburton</url>
  </developer>
  <developer>
    <url>https://github.com/kay</url>
  </developer>
  <developer>
    <url>https://github.com/franz1981</url>
  </developer>
</developers>

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  <java.test.version>1.8</java.test.version>

  <maven.compiler.source>${java.version}</maven.compiler.source>
  <maven.compiler.target>${java.version}</maven.compiler.target>
  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

  <hamcrest.version>1.3</hamcrest.version>
  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>
```

#### Found

in path(s):

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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Found in path(s):

- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/util/UnsafeJvmInfo.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
- \*
- /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/SpSCGrowableArrayQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/SpSCArrayQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/maps/ConcurrentAutoTable.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/maps/NonBlockingIdentityHashMap.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscGrowableArrayQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/util/Pow2.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/spec/ConcurrentQueueSpec.java
- \*
- /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/BaseLinkedQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/util/InternalAPI.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/SpSCLinkedQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/SpSCChunkedAtomicArrayQueue.java
- \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/spec/Ordering.java



\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/spec/Preference.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/maps/AbstractEntry.java

\*

/opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscLinkedQueue.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/package-info.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/util/RangeUtil.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/util/PortableJvmInfo.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscArrayQueue.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/QueueFactory.java

\*

/opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/maps/NonBlockingHashSet.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/IndexedQueueSizeUtil.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscCompoundQueue.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscUnboundedArrayQueue.java

\*

/opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscUnboundedXaddChunk.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/SpvcAtomicArrayQueue.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/SupportsIterator.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/SpvcGrowableAtomicArrayQueue.java

\* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/BaseMpscLinkedListArrayQueue.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/BaseLinkedListAtomicQueue.java  
 \*  
 /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/SpmcArrayQueue.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/SpscUnboundedArrayQueue.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/maps/NonBlockingHashMapLong.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/ConcurrentCircularArrayQueue.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/maps/NonBlockingSetInt.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddChunk.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/BaseSpscLinkedListAtomicArrayQueue.java  
 \*  
 /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscChunkedArrayQueue.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/maps/NonBlockingHashMap.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/util/UnsafeLongArrayAccess.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/SpscLinkedListAtomicQueue.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MessagePassingQueue.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java  
 \*  
 /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/BaseSpscLinkedListArrayQueue.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/LinkedListNode.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpmcArrayQueue.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/util/UnsafeAccess.java  
 \* /opt/cola/permits/1257637630\_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/util/UnsafeRefArrayAccess.java

```
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-
jar/org/jctools/queues/SpSCChunkedArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-
jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-
jar/org/jctools/queues/atomic/AtomicQueueFactory.java
```

## 1.631 compiler 0.9.6

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```

Found in path(s):

```
* /opt/cola/permits/1257748621_1643007400.4/0/compiler-0-9-6-sources-jar/META-
INF/maven/com.github.spullara.mustache.java/compiler/pom.xml
```

## 1.632 javapoet 1.8.0

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```

Found in path(s):

```
* /opt/cola/permits/1257863591_1643019587.88/0/javapoet-1-8-0-sources-
jar/com/squareup/javapoet/TypeVariableName.java
* /opt/cola/permits/1257863591_1643019587.88/0/javapoet-1-8-0-sources-
jar/com/squareup/javapoet/CodeBlock.java
* /opt/cola/permits/1257863591_1643019587.88/0/javapoet-1-8-0-sources-
```

```
jar/com/squareup/javapoet/MethodSpec.java
*
/opt/cola/permits/1257863591_1643019587.88/0/javapoet-1-8-0-sources-
jar/com/squareup/javapoet/TypeName.java
* /opt/cola/permits/1257863591_1643019587.88/0/javapoet-1-8-0-sources-
jar/com/squareup/javapoet/TypeSpec.java
* /opt/cola/permits/1257863591_1643019587.88/0/javapoet-1-8-0-sources-jar/com/squareup/javapoet/JavaFile.java
* /opt/cola/permits/1257863591_1643019587.88/0/javapoet-1-8-0-sources-
jar/com/squareup/javapoet/AnnotationSpec.java
* /opt/cola/permits/1257863591_1643019587.88/0/javapoet-1-8-0-sources-
jar/com/squareup/javapoet/ArrayTypeName.java
* /opt/cola/permits/1257863591_1643019587.88/0/javapoet-1-8-0-sources-
jar/com/squareup/javapoet/ParameterSpec.java
* /opt/cola/permits/1257863591_1643019587.88/0/javapoet-1-8-0-sources-
jar/com/squareup/javapoet/CodeWriter.java
* /opt/cola/permits/1257863591_1643019587.88/0/javapoet-1-8-0-sources-
jar/com/squareup/javapoet/ParameterizedTypeName.java
* /opt/cola/permits/1257863591_1643019587.88/0/javapoet-1-8-0-sources-
jar/com/squareup/javapoet/WildcardTypeName.java
*
/opt/cola/permits/1257863591_1643019587.88/0/javapoet-1-8-0-sources-
jar/com/squareup/javapoet/NameAllocator.java
* /opt/cola/permits/1257863591_1643019587.88/0/javapoet-1-8-0-sources-
jar/com/squareup/javapoet/FieldSpec.java
* /opt/cola/permits/1257863591_1643019587.88/0/javapoet-1-8-0-sources-jar/com/squareup/javapoet/Util.java
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Found in path(s):

```
* /opt/cola/permits/1257863591_1643019587.88/0/javapoet-1-8-0-sources-
jar/com/squareup/javapoet/LineWrapper.java
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```
*/opt/cola/permits/1257863591_1643019587.88/0/javapoet-1-8-0-sources-
jar/com/squareup/javapoet/ClassName.java
```

## 1.633 exp4j 0.4.8

### 1.633.1 Available under license :

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Found in path(s):

```
*/opt/cola/permits/1257869892_1643019660.18/0/exp4j-0-4-8-sources-
jar/net/objecthunter/exp4j/tokenizer/CloseParenthesesToken.java
*/opt/cola/permits/1257869892_1643019660.18/0/exp4j-0-4-8-sources-
jar/net/objecthunter/exp4j/tokenizer/VariableToken.java
*/opt/cola/permits/1257869892_1643019660.18/0/exp4j-0-4-8-sources-
```

jar/net/objecthunter/exp4j/shuntingyard/ShuntingYard.java

\*

/opt/cola/permits/1257869892\_1643019660.18/0/exp4j-0-4-8-sources-jar/net/objecthunter/exp4j/tokenizer/FunctionToken.java

\* /opt/cola/permits/1257869892\_1643019660.18/0/exp4j-0-4-8-sources-jar/net/objecthunter/exp4j/tokenizer/ArgumentSeparatorToken.java

\* /opt/cola/permits/1257869892\_1643019660.18/0/exp4j-0-4-8-sources-jar/net/objecthunter/exp4j/tokenizer/OpenParenthesesToken.java

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\* /opt/cola/permits/1257869892\_1643019660.18/0/exp4j-0-4-8-sources-jar/net/objecthunter/exp4j/function/Function.java

\* /opt/cola/permits/1257869892\_1643019660.18/0/exp4j-0-4-8-sources-jar/net/objecthunter/exp4j/Expression.java

\* /opt/cola/permits/1257869892\_1643019660.18/0/exp4j-0-4-8-sources-jar/net/objecthunter/exp4j/tokenizer/Tokenizer.java

\*

/opt/cola/permits/1257869892\_1643019660.18/0/exp4j-0-4-8-sources-jar/net/objecthunter/exp4j/ExpressionBuilder.java

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- \* /opt/cola/permits/1257869892\_1643019660.18/0/exp4j-0-4-8-sources-jar/net/objecthunter/exp4j/tokenizer/OperatorToken.java
- \* /opt/cola/permits/1257869892\_1643019660.18/0/exp4j-0-4-8-sources-jar/net/objecthunter/exp4j/tokenizer/Token.java
- \* /opt/cola/permits/1257869892\_1643019660.18/0/exp4j-0-4-8-sources-jar/net/objecthunter/exp4j/tokenizer/NumberToken.java
- \*

- /opt/cola/permits/1257869892\_1643019660.18/0/exp4j-0-4-8-sources-jar/net/objecthunter/exp4j/operator/Operator.java
- \* /opt/cola/permits/1257869892\_1643019660.18/0/exp4j-0-4-8-sources-jar/net/objecthunter/exp4j/function/Functions.java
- \* /opt/cola/permits/1257869892\_1643019660.18/0/exp4j-0-4-8-sources-jar/net/objecthunter/exp4j/ValidationResult.java
- \* /opt/cola/permits/1257869892\_1643019660.18/0/exp4j-0-4-8-sources-jar/net/objecthunter/exp4j/operator/Operators.java

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- \* /opt/cola/permits/1257869892\_1643019660.18/0/exp4j-0-4-8-sources-jar/net/objecthunter/exp4j/ArrayStack.java

## 1.634 reflections 0.9.10

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## 1.636 jtoml 1.0.0

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 \* /opt/cola/permits/1258887677\_1643120591.13/0/commons-compiler-3-0-11-sources-  
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 \*  
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 \* /opt/cola/permits/1258887677\_1643120591.13/0/commons-compiler-3-0-11-sources-  
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 \* /opt/cola/permits/1258887677\_1643120591.13/0/commons-compiler-3-0-11-sources-  
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 jar/org/codehaus/commons/compiler/package-info.java

\* /opt/cola/permits/1258887677\_1643120591.13/0/commons-compiler-3-0-11-sources-jar/org/codehaus/commons/compiler/CompilerFactoryFactory.java  
\*  
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\* /opt/cola/permits/1258887677\_1643120591.13/0/commons-compiler-3-0-11-sources-jar/org/codehaus/commons/compiler/LocatedException.java  
\* /opt/cola/permits/1258887677\_1643120591.13/0/commons-compiler-3-0-11-sources-jar/org/codehaus/commons/compiler/samples/ScriptDemo.java  
\* /opt/cola/permits/1258887677\_1643120591.13/0/commons-compiler-3-0-11-sources-jar/org/codehaus/commons/compiler/ICompilerFactory.java  
\* /opt/cola/permits/1258887677\_1643120591.13/0/commons-compiler-3-0-11-sources-jar/org/codehaus/commons/compiler/Location.java  
\* /opt/cola/permits/1258887677\_1643120591.13/0/commons-compiler-3-0-11-sources-jar/org/codehaus/commons/compiler/CompileException.java  
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/opt/cola/permits/1258887677\_1643120591.13/0/commons-compiler-3-0-11-sources-jar/org/codehaus/commons/compiler/IClassBodyEvaluator.java  
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jar/org/codehaus/commons/nullanalysis/Nullable.java  
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jar/org/codehaus/commons/nullanalysis/NotNull.java  
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jar/org/codehaus/commons/nullanalysis/package-info.java  
\* /opt/cola/permits/1258887677\_1643120591.13/0/commons-compiler-3-0-11-sources-  
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\* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/resource/StringResource.java

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jar/org/codehaus/janino/UnitCompiler.java  
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\* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/TokenType.java  
\* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
jar/org/codehaus/janino/util/Annotatable.java

\*  
/opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/TokenStream.java  
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\* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
jar/org/codehaus/janino/util/resource/ZipFileResourceFinder.java  
\* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Compiler.java  
\*  
/opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
jar/org/codehaus/janino/ExpressionEvaluator.java  
\* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
jar/org/codehaus/janino/JaninoRuntimeException.java  
\* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/CodeContext.java  
\* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
jar/org/codehaus/janino/util/TeeReader.java

\* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/tools/HprofScrubber.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/resource/Resource.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/resource/ResourceCreator.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/ResourceFinderClassLoader.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/MultiIterator.java  
 \*  
 /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/iterator/FilterIterator.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/JavaSourceClassLoader.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/Producer.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/UnicodeUnescapeException.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/ClassFile.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Access.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/iterator/ReverseListIterator.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/SimpleCompiler.java  
 \*  
 /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/samples/DeclarationCounter.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/ClassBodyEvaluator.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/TokenStreamImpl.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/iterator/TraversingIterator.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Scanner.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/iterator/FilterListIterator.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Mod.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/resource/DirectoryResourceFinder.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/IClass.java  
 \*  
 /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/resource/LazyMultiResourceFinder.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/resource/ResourceFinder.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/Benchmark.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-



jar/org/codehaus/janino/util/resource/MapResourceFinder.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/InternalCompilerException.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Parser.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/AntCompilerAdapter.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/util/resource/FileResourceFinder.java  
 \*  
 /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/util/iterator/TransformingIterator.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/ByteArrayClassLoader.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Unparser.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/util/ResourceFinderClassLoader.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/CachingJavaSourceClassLoader.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/util/resource/FileResourceCreator.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/util/iterator/ProducerIterator.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/util/resource/FileResource.java  
 \*  
 /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/util/iterator/DirectoryIterator.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Descriptor.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/util/iterator/UniterableElementException.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Java.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/util/resource/PathResourceFinder.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/util/iterator/IteratorCollection.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/CompilerFactory.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Opcodes.java  
 \*  
 /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/MethodDescriptor.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/util/AutoIndentWriter.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/util/iterator/MultiDimensionalIterator.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-  
 jar/org/codehaus/janino/util/resource/DirectoryResourceCreator.java  
 \* /opt/cola/permits/1258889690\_1643120183.25/0/janino-3-0-11-sources-

```

jar/org/codehaus/janino/util/resource/MapResourceCreator.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/ClassFileIClass.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/ReflectionIClass.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/resource/MultiResourceFinder.java
*
/opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/FilterWarningHandler.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/AbstractTraverser.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/iterator/EnumerationIterator.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/IClassLoader.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/UnicodeUnescapeReader.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/resource/JarDirectoriesResourceFinder.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/JavaSourceIClassLoader.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/ClassLoaderIClassLoader.java
*
/opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/ScriptEvaluator.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/StringPattern.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Visitor.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/Traverser.java

```

# 1.640 amqp-client 5.8.0

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```
* /opt/cola/permits/1260748499_1643211709.74/0/resilience4j-all-1-7-0-sources-
jar/io/github/resilience4j/decorators/package-info.java
```

# 1.642 metrics 4.1.0

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## 1.643 metrics-json 4.1.0

### 1.643.1 Available under license :

Apache-2.0

## 1.644 vavr-match 0.10.2

### 1.644.1 Available under license :

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

```
/* _ _ _ _ _ _ _ _ _ _
 * \ \ / / \ \ / / _/
 * \ \ / / ^ \ \ / /
 * \ \ / / \ \ / /
 *
 * Copyright 2014-2019 Vavr, http://vavr.io
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 */
```

Found in path(s):

```
* /opt/cola/permits/1262902143_1643563473.26/0/vavr-match-0-10-2-sources-
jar/io/vavr/match/annotation/Unapply.java
* /opt/cola/permits/1262902143_1643563473.26/0/vavr-match-0-10-2-sources-
jar/io/vavr/match/annotation/Patterns.java
```

## 1.645 vavr 0.10.2

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## 1.646 swagger-annotations 2.1.2

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```

Found in path(s):

```
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/OpenAPIDefinition.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/security/SecurityRequirement.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/media/Encoding.java
*
/opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/links/Link.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
```

jar/io/swagger/v3/oas/annotations/callbacks/Callbacks.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/Parameter.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/tags/Tags.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/media/DiscriminatorMapping.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/ExternalDocumentation.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/security/OAuthFlows.java  
\*  
/opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/tags/Tag.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/security/SecuritySchemes.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/info/License.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/extensions/Extensions.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/Operation.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/servers/ServerVariable.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/Hidden.java  
\*  
/opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/headers/Header.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/security/OAuthFlow.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/responses/ApiResponse.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/info/Info.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/links/LinkParameter.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/Parameters.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/responses/ApiResponses.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/media/Schema.java  
\*  
/opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/media/Content.java  
\* /opt/cola/permits/1262998154\_1643612137.07/0/swagger-annotations-2-1-2-sources-  
jar/io/swagger/v3/oas/annotations/parameters/RequestBody.java

```

* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/security/SecurityRequirements.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/servers/Server.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/security/SecurityScheme.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/info/Contact.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/media/ExampleObject.java
*
/opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/callbacks/Callback.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/security/OAuthScope.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/servers/Servers.java

```

# 1.647 spatial4j 0.7

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```

Found in path(s):

```

* /opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/context/SpatialContext.java
* /opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/io/package-
info.java
* /opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/distance/DistanceCalculator.java
* /opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/jts/JtsWKTRReaderShapeParser.java
*
/opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/LegacyShapeReader.java
* /opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/shape/impl/CircleImpl.java
* /opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/shape/impl/ShapeFactoryImpl.java

```



\* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/shape/jts/JtsGeometry.java  
 \* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/shape/ShapeCollection.java  
 \* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/shape/package-info.java  
 \* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/shape/impl/GeoCircle.java  
 \* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/context/jts/JtsSpatialContext.java  
 \*  
 /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/shape/Rectangle.java  
 \* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/distance/GeodesicSphereDistCalc.java  
 \* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/shape/jts/JtsPoint.java  
 \* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/shape/Point.java  
 \* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/context/package-info.java  
 \* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/distance/CartesianDistCalc.java  
 \* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/distance/package-info.java  
 \* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/context/jts/JtsSpatialContextFactory.java  
 \*  
 /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/shape/impl/RectangleImpl.java  
 \* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/shape/impl/PointImpl.java  
 \* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/shape/Circle.java  
 \* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/shape/Shape.java  
 \* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/shape/jts/JtsShapeFactory.java  
 \* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/io/LegacyShapeWriter.java  
 \* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/package-  
 info.java  
 \* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/exception/InvalidShapeException.java  
 \*  
 /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
 jar/org/locationtech/spatial4j/shape/SpatialRelation.java

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* /opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/jts/JtsPolyshapeWriter.java

```

```

/opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/distance/DistanceUtils.java
* /opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/PolyshapeWriter.java
* /opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/PolyshapeReader.java
* /opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/ParseUtils.java

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jar/org/locationtech/spatial4j/shape/impl/BBoxCalculator.java

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jar/org/locationtech/spatial4j/shape/ShapeFactory.java  
\* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
jar/org/locationtech/spatial4j/io/OnePointsBuilder.java

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\* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
jar/org/locationtech/spatial4j/exception/UnsupportedSpatialPredicate.java  
\*  
/opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
jar/org/locationtech/spatial4j/io/GeohashUtils.java  
\* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-  
jar/org/locationtech/spatial4j/SpatialPredicate.java

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\* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/distance/AbstractDistanceCalculator.java

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\* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/io/jts/JtsWKTWriter.java  
\* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/io/GeoJSONWriter.java  
\* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/io/WKTWriter.java

\*

/opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/io/SupportedFormats.java  
\* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/shape/BaseShape.java  
\* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/io/ShapeIO.java  
\* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/io/ShapeWriter.java  
\* /opt/cola/permits/1262997704\_1643611896.71/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/io/jts/JtsGeoJSONWriter.java

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```
*/opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/shape/impl/Range.java
*/opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/shape/impl/BufferedLine.java
*/opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/shape/impl/InfBufLine.java
*/opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/BinaryCodec.java
*
```

```
*/opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/context/jts/ValidationRule.java
*/opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/jts/JtsBinaryCodec.java
*/opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/shape/impl/BufferedLineString.java
*/opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/context/jts/DatelineRule.java
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*/opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/jackson/GeometryAsGeoJSONSerializer.java
*/opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/jackson/ShapeDeserializer.java
*/opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/jackson/ShapeAsGeoJSONSerializer.java
*/opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/jackson/GeometryDeserializer.java
*
```

```
*/opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/jackson/PackageVersion.java.in
```

```
* /opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/jackson/ShapesAsWKTModule.java
* /opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/jackson/ShapesAsGeoJSONModule.java
* /opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/GeoJSONReader.java
* /opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/jackson/ShapeAsWKTSerializer.java
* /opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/jackson/GeometryAsWKTSerializer.java
* /opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/jackson/PackageVersion.java
*
```

```
/opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
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* /opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/WktShapeParser.java
* /opt/cola/permits/1262997704_1643611896.71/0/spatial4j-0-7-sources-
jar/org/locationtech/spatial4j/io/WKTReader.java
```

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<head>
<title>PostgreSQL JDBC License</title>
<meta http-equiv="Content-Type" content="text/xhtml; charset=utf-8" />
<meta name="description" content="The official site for the PostgreSQL JDBC Driver" />
<meta name="copyright" content="The PostgreSQL Global Development Group" />

<style type="text/css" media="screen" title="Normal Text">@import url("../media/css/base.css");</style>

<link rel="shortcut icon" href="../media/favicon.ico" />

<!--
<script type="text/javascript">
var _gaq = _gaq || [];
_gaq.push(['_setAccount', 'UA-1345454-1']);
_gaq.push(['_trackPageview']);
(function() {
var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
var
```

```

s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
    }());
</script>
-->
</head>

<body>
<div id="pgContainerWrap">
  <div id="pgContainer">

    <span class="txtOffScreen"><a href="#pgContent" title="Skip site navigation" accesskey="1">Skip site
navigation</a> (1)</span>
    <span class="txtOffScreen"><a href="#pgContentWrap" title="Skip section navigation" accesskey="2">Skip
section navigation</a> (2)</span>

    <div id="pgHeaderContainer">

      <div id="pgSearch">

        <!-- Old pgjdbc form -->
        <form action="https://www.google.com/search" method="get">
          <input value="jdbc.postgresql.org" name="sitesearch" type="hidden" />
          <input id="q" name="q" type="text" size="20" maxlength="255" onfocus="if( this.value==this.defaultValue )
this.value=";" value="Google Search" accesskey="s" />
          <!-- <input onFocus="getBlank (this, 'Search the site with google');" size="25" name="q" id="query" type="text"
value="Search the
site with google">&nbsp; -->
          <input name="Search" value="Search" type="submit" />
        </form>

        <!-- New PostgreSQL form
        <form method="get" action="search/">
          <div>
            <h2 class="pgBlockHide"><label for="q">Search</label></h2>
            <input id="q" name="q" type="text" size="20" maxlength="255" onfocus="if( this.value==this.defaultValue )
this.value=";" value="Search" accesskey="s" />
            <input name="a" type="hidden" value="1"/>
            <input id="submit" name="submit" type="submit" value="Search" />
          </div>
        </form>
        -->

      </div> <!-- pgSearch -->
      <br />

      <div id="pgHeader">
      <div id="pgHeaderLogoLeft">
        

```

```

<map name="maplinks">
  <area shape="rect" coords="0,0,231,80" alt="PostgreSQL" href="https://postgresql.org" />
  <area shape="rect" coords="232,0,390,80" alt="PostgreSQL JDBC Driver" href="https://jdbc.postgresql.org"
/>
</map>
</div>
<div id="pgHeaderLogoRight">
  <a href="https://postgresql.org">
    
  </a>
</div>
</div> <!-- pgHeader -->

<div id="pgTopNav">
  <div id="pgTopNavLeft">
    
  </div>
  <div id="pgTopNavRight">
    
  </div>
  <ul id="pgTopNavList">
    <li><a href="../index.html" title="Home">Home</a></li>
    <li><a href="../about/about.html" title="About">About</a></li>
    <li><a href="../download.html" title="Download">Download</a></li>
    <li><a href="../documentation/documentation.html" title="Documentation">Documentation</a></li>
    <li><a href="../community/community.html" title="Community">Community</a></li>
    <li><a
href="../development/development.html" title="Development">Development</a></li>
  </ul>
</div> <!-- pgTopNav -->
</div> <!-- pgHeaderContainer -->

<div id="pgContent">
  <div id="pgSideWrap">
    <div id="pgSideNav">
      <ul>
        <li><a href="about.html">About</a></li>
        <li><a href="license.html">License</a></li>
        <li><a href="extras.html">Extras</a></li>
      </ul>
    </div> <!-- pgSideNav -->
  </div> <!-- pgSideWrap -->

  <div id="pgContentWrap">
    <h1>BSD 2-clause "Simplified" License</h1>
    <p>
      The PostgreSQL JDBC Driver is distributed under the BSD-2-Clause License.

```

The simplest explanation of the licensing terms is that you can do whatever you want with the product and source code as long as you don't claim you wrote it or sue us. You should give it a read though, it's only half a page.

</p>  
<hr />

```
<pre style="font-family: monospace,'Courier'; background-color: #f9f9f9; padding: 1em; border: 1px solid #ddd">
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```

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```
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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.</pre>
```

```
</div> <!-- pgContentWrap -->
```

```
<br class="pgClearBoth" />
```

```
</div> <!-- pgContent -->
```

```
<hr />
```

```
<div id="pgFooter">
```

```
<a class="navFooter" href="https://www.postgresql.org/about/privacypolicy">Privacy Policy</a> |
```

```
<a class="navFooter" href="https://www.postgresql.org/about/">About PostgreSQL</a><br/>
```

```
Copyright &copy; 1996-2020 The PostgreSQL Global Development Group
```

```
</div> <!-- pgFooter -->
```

```
</div> <!-- pgContainer -->
```

```
</div> <!-- pgContainerWrap -->
```

```
</body>
```

```
</html>
```

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## 1.651 druid 1.0.15

### 1.651.1 Available under license :

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Found in path(s):

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/support/http/resources/js/doT.js

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Found in path(s):

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/ast/statement/SQLAlterTableDropPrimaryKey.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/util/StringUtils.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/ast/statement/SQLAlterTableRenameColumn.java  
 \*  
 /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/wall/violation/IllegalSQLObjectViolation.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/mysql/ast/MysqlForeignKey.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/ast/expr/SQLBinaryExpr.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/support/profile/ProfileEntryStat.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/pool/DataSourceClosedException.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowWarningsStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/sqlserver/visitor/SQLServerASTVisitorAdapter.java  
 \*  
 /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/ast/statement/SQLDropProcedureStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/mysql/ast/expr/MySQLExprImpl.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowCreateTriggerStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/mock/MockDriverMBean.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/visitor/SQLASTVisitorAdapter.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowCollationStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLLoadDataInFileStatement.java  
 \*  
 /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/ast/statement/SQLCreateDatabaseStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/wall/WallFunctionStatValue.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/proxy/jdbc/JdbcParameterLong.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/pool/DruidPooledStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/parser/SQLParserUtils.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/support/jconsole/DruidDriverPanel.java

```

* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/support/http/StatViewServlet.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleSelectTableReference.java
*
/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/support/profile/ProfileEntryKey.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/util/jdbc/ConnectionBase.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/wall/WallProviderStatValue.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLLoadXmlStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/visitor/MySQLOutputVisitor.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/odps/visitor/OdpsASTVisitor.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleCommitStatement.java
*
/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowBinLogEventsStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/support/quartz/DruidQuartzConnectionProvider.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/expr/MySQLCharExpr.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/expr/SQLUnaryOperator.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLCreateTriggerStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleMultiInsertStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/postgresql/visitor/PGOutputVisitor.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/proxy/jdbc/JdbcParameter.java
*
/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/support/monitor/MonitorServlet.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLTableIndex.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/postgresql/ast/stmt/PGInsertStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleAlterTableAddConstaint.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLConstraintImpl.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-

```

```

jar/com/alibaba/druid/sql/dialect/sqlserver/ast/stmt/SQLServerCommitStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLAlterTableChangeColumn.java
*
/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/db2/ast/stmt/DB2SelectQueryBlock.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowStatusStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/pool/DruidPooledResultSet.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/postgresql/ast/stmt/PGDeleteStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/postgresql/ast/stmt/PGValuesQuery.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLRevokeStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/support/logging/Log4jImpl.java
*
/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/proxy/jdbc/JdbcParameterNull.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/expr/SQLTimestampExpr.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/pool/ExceptionSorter.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/expr/OracleArgumentExpr.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLForeignKeyConstraint.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/stat/DruidDataSourceStatManager.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleExceptionStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/pool/vendor/PGValidConnectionChecker.java
*
/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/stat/JdbcDataSourceStatMBean.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/proxy/jdbc/JdbcParameterInt.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/odps/visitor/OdpsSchemaStatVisitor.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/stat/JdbcDataSourceStat.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/wall/WallVisitor.java
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jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowStatement.java

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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/wall/spi/PGWallVisitor.java

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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/wall/violation/ErrorCode.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/ast/statement/SQLAlterTableDropConstraint.java

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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/filter/stat/StatFilterContextListenerAdapter.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowGrantsStatement.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/db2/visitor/DB2ExportParameterVisitor.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLSetPasswordStatement.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/odps/parser/OdpsExprParser.java

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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/postgresql/visitor/PGASTVisitorAdapter.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/mock/MockDriver.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/pool/vendor/OracleValidConnectionChecker.java

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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/db2/parser/DB2Lexer.java

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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/db2/parser/DB2ExprParser.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/ast/statement/SQLAssignItem.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/ast/statement/SQLRollbackStatement.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/ast/expr/SQLNullExpr.java

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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/oracle/ast/clause/OracleLobStorageClause.java

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jar/com/alibaba/druid/sql/dialect/oracle/ast/OracleDataTypeIntervalYear.java  
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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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jar/com/alibaba/druid/wall/spi/DB2WallProvider.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleCreateDatabaseDbLinkStatement.java  
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jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleSelectPivot.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/pool/DruidDataSourceStatLoggerImpl.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/builder/SQLBuilder.java  
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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/ast/expr/SQLListExpr.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/ast/SQLName.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/support/logging/Log4j2Impl.java

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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/filter/logging/CommonsLogFilterMBean.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/db2/ast/stmt/DB2ValuesStatement.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/db2/visitor/DB2ASTVisitor.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/stat/DruidStatService.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/oracle/ast/clause/PartitionExtensionClause.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/oracle/visitor/OracleExportParameterVisitor.java

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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/pool/GetConnectionTimeoutException.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/oracle/parser/OracleLexer.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/stat/JdbcResultSetStatMBean.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-

jar/com/alibaba/druid/mock/MockSavepoint.java  
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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/proxy/jdbc/StatementProxyImpl.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/support/logging/JakartaCommonsLoggingImpl.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLRenameTableStatement.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/util/MapComparator.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/ast/statement/SQLInsertStatement.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/postgresql/parser/PGExprParser.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/visitor/SQLASTOutputVisitorUtils.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLAlterTableOption.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/odps/ast/OdpsSetLabelStatement.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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jar/com/alibaba/druid/sql/dialect/db2/ast/DB2StatementImpl.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleCreateIndexStatement.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/oracle/ast/clause/ModelClause.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/stat/JdbcStatManager.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/mock/MockRef.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/sqlserver/visitor/SQLServerSchemaStatVisitor.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/oracle/ast/expr/OracleDateTimeUnit.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/filter/encoding/EncodingConvertFilter.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowCreateFunctionStatement.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/oracle/ast/expr/OracleDbLinkExpr.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/ast/statement/SQLDeleteStatement.java  
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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/util/jdbc/ResultSetBase.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/mysql/visitor/MySQLSchemaStatVisitor.java  
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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/mock/MockBlob.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/filter/FilterManager.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/mock/MockResultSetMetaData.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/support/monitor/entity/MonitorApp.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/support/jconsole/model/DruidTableCellRenderer.java  
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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/mysql/parser/MySQLStatementParser.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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 jar/com/alibaba/druid/support/logging/Resources.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/ast/statement/SQLUpdateSetItem.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/util/DaemonThreadFactory.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/sqlserver/parser/SQLServerLexer.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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 /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowRelayLogEventsStatement.java  
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 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/ast/SQLPartitioningClause.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/proxy/jdbc/DataSourceProxy.java  
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 jar/com/alibaba/druid/sql/dialect/odps/ast/OdpsInsertStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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 jar/com/alibaba/druid/pool/DruidPooledConnection.java  
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 /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLCreateIndexStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/proxy/jdbc/StatementExecuteType.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/mysql/ast/MySQLIgnoreIndexHint.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/ast/expr/SQLAnyExpr.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleInsertStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/ast/statement/SQLSelectQuery.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/oracle/ast/clause/SearchClause.java  
 \*  
 /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/proxy/jdbc/ResultSetProxy.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/mysql/ast/expr/MySQLUserName.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/mock/MockStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/ast/statement/SQLColumnConstraint.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/db2/parser/DB2SelectParser.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLAlterTableAddColumn.java  
 \*  
 /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleUpdateStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-

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jar/com/alibaba/druid/pool/xa/JtdsXAConnection.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLTableConstraint.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/support/profile/Profiler.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/visitor/functions/Hex.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/sqlserver/ast/SQLServerSelect.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/util/HexBin.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/wall/WallSQLException.java
*
/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/sqlserver/ast/expr/SQLServerObjectReferenceExpr.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/pool/DruidAbstractDataSourceMBean.java
*
/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-

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jar/com/alibaba/druid/sql/dialect/oracle/ast/clause/OracleRangeValuesClause.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/wall/WallProviderStatLoggerImpl.java  
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jar/com/alibaba/druid/filter/FilterChainImpl.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/sqlserver/parser/SQLServerExprParser.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleAlterTablespaceItem.java  
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jar/com/alibaba/druid/stat/DruidStatManagerFacade.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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jar/com/alibaba/druid/pool/ValidConnectionCheckerAdapter.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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*
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowTablesStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleSelectTableSource.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/sqlserver/ast/SQLServerTop.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/util/jdbc/StatementBase.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLAlterTableDisableKeys.java
*
/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/visitor/functions/Reverse.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/wall/WallTableStat.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/odps/ast/OdpsShowPartitionsStmt.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-

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jar/com/alibaba/druid/mock/handler/MockExecuteHandler.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/filter/logging/CommonsLogFilter.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/support/spring/stat/config/DruidStatBeanDefinitionParser.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/visitor/SQLEvalVisitor.java
*
/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLUseStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/visitor/functions/Least.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowDatabasesStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/odps/parser/OdpsLexer.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/visitor/ExportParameterVisitor.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowProfileStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLPartitioningClause.java
*
/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleSelectForUpdate.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLAlterTableAddColumn.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/visitor/MySQLParameterizedOutputVisitor.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/proxy/jdbc/DataSourceProxyConfig.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/pool/DruidDataSourceC3P0AdapterMBean.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLAlterTableRename.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/filter/stat/StatFilterContext.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/visitor/OracleParameterizedOutputVisitor.java
*
/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/util/JMXUtils.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/proxy/jdbc/PreparedStatementProxyImpl.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/NotNullConstraint.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLDropUserStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-

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jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLLockTableStatement.java  
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 jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLPrepareStatement.java  
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 jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowProcedureStatusStatement.java  
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 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/filter/encoding/CharsetParameter.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/postgresql/ast/stmt/PGUpdateStatement.java  
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 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/ast/statement/SQLAlterTableEnableConstraint.java  
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 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/ast/statement/SQLTruncateStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleAlterTableStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/pool/DruidAbstractDataSource.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/util/PGUtils.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/oracle/parser/OracleUpdateParser.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-

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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/pool/PreparedStatementHolder.java  
\*  
/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/oracle/parser/OracleCreateTableParser.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/oracle/ast/expr/OracleAnalytic.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/support/jconsole/DruidDataSourcePanel.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/visitor/SQLEvalVisitorImpl.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowTableStatusStatement.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLSetTransactionStatement.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/filter/Filter.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/ast/SQLDataTypeImpl.java  
\*  
/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/odps/ast/OdpsShowStatisticStmt.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLReplaceStatement.java  
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jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleSelectHierachicalQueryClause.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/ast/statement/SQLSetStatement.java

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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/proxy/jdbc/ClobProxyImpl.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLUnionQuery.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/oracle/ast/expr/OracleRangeExpr.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/support/http/stat/WebAppStat.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/oracle/visitor/OracleASTVisitor.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/wall/WallSqlTableStat.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/proxy/jdbc/CallableStatementProxy.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/visitor/functions/Ucase.java

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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/util/JdbcUtils.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/util/Histogram.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/support/ibatis/SpringIbatisBeanTypeAutoProxyCreator.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/visitor/ParameterizedVisitor.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/postgresql/ast/expr/PGInetExpr.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/ast/expr/SQLInSubQueryExpr.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/oracle/ast/expr/OracleDatetimeExpr.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/wall/WallProviderStatLoggerAdapter.java

\*

/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/ast/SQLExprImpl.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/postgresql/ast/expr/PGExpr.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowProcessListStatement.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/support/http/stat/WebURISat.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/postgresql/parser/PGSelectParser.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/builder/impl/SQLUpdateBuilderImpl.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-

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jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySqlUpdateStatement.java
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/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/DruidRuntimeException.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
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jar/com/alibaba/druid/sql/dialect/postgresql/parser/PGSQLStatementParser.java  
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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleAlterTableModify.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/support/jconsole/model/ColumnGroup.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/odps/visitor/OdpsOutputVisitor.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/oracle/ast/expr/OracleDateExpr.java  
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jar/com/alibaba/druid/pool/vendor/MockExceptionSorter.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/Constants.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/sqlserver/visitor/SQLServerOutputVisitor.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/ast/statement/SQLDropTableStatement.java  
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/opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/ast/statement/SQLReleaseSavePointStatement.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/parser/ParserException.java

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowCreateEventStatement.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/support/profile/ProfileEntryStatValue.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/ast/statement/SQLAlterTableDisableConstraint.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/proxy/jdbc/JdbcParameterDate.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/support/profile/ProfileEntry.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OraclePLSQLCommitStatement.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/ast/statement/SQLDropIndexStatement.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/odps/parser/OdpsCreateTableParser.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/TransactionTimeoutException.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleAlterTableItem.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/dialect/mysql/ast/MySQLObjectImpl.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/ast/statement/SQLAlterTableItem.java

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jar/com/alibaba/druid/proxy/jdbc/TransactionInfo.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/sql/ast/SQLHint.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLRollbackStatement.java  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleCreateProcedureStatement.java  
\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
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\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
jar/com/alibaba/druid/sql/dialect/oracle/ast/OracleDataTypeIntervalDay.java  
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 jar/com/alibaba/druid/wall/WallConfigMBean.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleDDLStatement.java  
 \*  
 /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/util/Utils.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-

jar/com/alibaba/druid/sql/dialect/mysql/ast/MySqlIndexHintImpl.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleStatementImpl.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/support/http/stat/WebAppStatManager.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/ast/statement/SQLPrimaryKey.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySqlAlterTableModifyColumn.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/proxy/DruidDriverMBean.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/ast/statement/SQLColumnReference.java  
 \*  
 /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/support/http/util/IPRange.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/ast/expr/SQLBinaryOpExpr.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/support/http/AbstractWebStatImpl.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/support/spring/stat/SpringStat.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/postgresql/ast/expr/PGMacAddrExpr.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/support/console/TabledDataPrinter.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySqlShowAuthorsStatement.java  
 \*  
 /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/wall/Violation.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/builder/SQLSelectBuilder.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/ast/expr/SQLAggregateExpr.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleMergeStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/parser/NotAllowedCommentException.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/util/H2Utils.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/proxy/jdbc/NClobProxy.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-jar/com/alibaba/druid/util/MySqlUtils.java  
 \*  
 /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/wall/WallSqlFunctionStat.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySqlCreateTableStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-



```

jar/com/alibaba/druid/support/monitor/MonitorContext.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/expr/OracleBinaryDoubleExpr.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/visitor/SQLEvalVisitorUtils.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/pool/vendor/OracleExceptionSorter.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowBinaryLogsStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleExitStatement.java
*
/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleConstraint.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleFileSpecification.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/support/json/JSONUtils.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/sqlserver/ast/SQLServerStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLSetCharSetStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/parser/SQLSelectParser.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/db2/visitor/DB2SchemaStatVisitor.java
*
/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLSelectOrderByItem.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/SQLStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLBlockStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/visitor/functions/IsNull.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/clause/OracleErrorLoggingClause.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/visitor/SQLASTVisitor.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleAlterTableTruncatePartition.java
*
/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/oracle/ast/expr/OracleIntervalType.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLSelectQueryBlock.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/filter/stat/MergeStatFilter.java

```

\* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/filter/logging/Slf4jLogFilter.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/support/ibatis/SpringIbatisBeanNameAutoProxyCreatorMBean.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/support/ibatis/SqlMapSessionWrapper.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/stat/JdbcStatManagerFactoryBean.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/support/spring/DruidLobCreator.java  
 \*  
 /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/pool/ManagedDataSource.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/proxy/jdbc/JdbcParameterTimestamp.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/oracle/ast/clause/OracleWithSubqueryEntry.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleLockTableStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLShowEngineStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/mock/MockPreparedStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/stat/DruidStatServiceMBean.java  
 \*  
 /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/oracle/ast/stmt/OracleAlterTablespaceStatement.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/filter/logging/Log4jFilterMBean.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/support/spring/stat/SpringStatManager.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/db2/parser/DB2StatementParser.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/support/http/stat/WebAppStatUtils.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/filter/stat/StatFilter.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/mock/MockStatementBase.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/dialect/mysql/parser/MySQLSelectParser.java  
 \*  
 /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/sql/ast/expr/SQLExistsExpr.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-  
 jar/com/alibaba/druid/util/PatternMatcher.java  
 \* /opt/cola/permits/1268275871\_1644386692.36/0/druid-1-0-15-sources-

```

jar/com/alibaba/druid/sql/ast/statement/SQLAlterTableStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/stat/DruidDataSourceStatManagerMBean.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/visitor/functions/Greatest.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/proxy/jdbc/ClobProxy.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/support/jconsole/DruidPanel.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/SQLOrderBy.java
*
/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/expr/SQLNCharExpr.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/builder/impl/SQLBuilderImpl.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/filter/stat/StatFilterMBean.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/pool/xa/DruidXADataSource.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLObjectType.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/statement/SQLColumnDefinition.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/proxy/jdbc/ConnectionProxy.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/parser/SQLDDLParser.java
*
/opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/sqlserver/parser/SQLServerStatementParser.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/expr/SQLLiteralExpr.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/ast/expr/SQLIdentifierExpr.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/dialect/mysql/ast/statement/MySQLHintStatement.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/filter/config/ConfigFilter.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/support/ibatis/SpringIbatisBeanTypeAutoProxyCreatorMBean.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/proxy/jdbc/WrapperProxyImpl.java
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/com/alibaba/druid/sql/visitor/functions/Locate.java
No license file was found, but licenses were detected in source scan.

```

```
/**
```

```
* Bootstrap.js by @fat & @mdo
* plugins: bootstrap-tab.js
* Copyright 2012 Twitter, Inc.
* http://www.apache.org/licenses/LICENSE-2.0.txt
*/
```

Found in path(s):

```
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/support/http/resources/js/bootstrap.min.js
```

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

```
/*!
```

```
* Bootstrap v2.1.0
```

```
*
```

```
* Copyright 2012 Twitter, Inc
```

```
* Licensed under the Apache License v2.0
```

```
* http://www.apache.org/licenses/LICENSE-2.0
```

```
*
```

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

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1268275871_1644386692.36/0/druid-1-0-15-sources-
jar/support/http/resources/css/bootstrap.min.css
```

# 1.652 minimatch 3.1.2

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# 1.653 microdnf 3.8.0-2.el8

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Version 2, June 1991

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\* /opt/cola/permits/1273317603\_1645099869.69/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/Expression.java  
\* /opt/cola/permits/1273317603\_1645099869.69/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/UriUtil.java  
\*  
/opt/cola/permits/1273317603\_1645099869.69/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/UriTransient.java  
\* /opt/cola/permits/1273317603\_1645099869.69/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/impl/Modifier.java  
\* /opt/cola/permits/1273317603\_1645099869.69/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/VariableExpansionException.java  
\* /opt/cola/permits/1273317603\_1645099869.69/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/VarName.java  
\* /opt/cola/permits/1273317603\_1645099869.69/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/VarExploder.java  
\* /opt/cola/permits/1273317603\_1645099869.69/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/impl/VarSpec.java  
\* /opt/cola/permits/1273317603\_1645099869.69/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/UriTemplate.java  
\* /opt/cola/permits/1273317603\_1645099869.69/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/DefaultVarExploder.java  
\*  
/opt/cola/permits/1273317603\_1645099869.69/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/impl/UriTemplateParser.java  
\* /opt/cola/permits/1273317603\_1645099869.69/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/impl/VarExploderFactory.java  
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\* /opt/cola/permits/1273317603\_1645099869.69/0/handy-uri-templates-2-1-8-sources-jar/META-INF/maven/com.damnhandy/handy-uri-templates/pom.xml  
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* /opt/cola/permits/1275987845_1645584317.62/0/swagger-annotations-1-5-16-sources-
jar/io/swagger/annotations/AuthorizationScope.java
* /opt/cola/permits/1275987845_1645584317.62/0/swagger-annotations-1-5-16-sources-
jar/io/swagger/annotations/ApiImplicitParams.java
* /opt/cola/permits/1275987845_1645584317.62/0/swagger-annotations-1-5-16-sources-
jar/io/swagger/annotations/SwaggerDefinition.java
*
/opt/cola/permits/1275987845_1645584317.62/0/swagger-annotations-1-5-16-sources-
jar/io/swagger/annotations/ApiResponses.java
* /opt/cola/permits/1275987845_1645584317.62/0/swagger-annotations-1-5-16-sources-
jar/io/swagger/annotations/ResponseHeader.java
* /opt/cola/permits/1275987845_1645584317.62/0/swagger-annotations-1-5-16-sources-
jar/io/swagger/annotations/Authorization.java
* /opt/cola/permits/1275987845_1645584317.62/0/swagger-annotations-1-5-16-sources-
jar/io/swagger/annotations/ApiResponse.java
* /opt/cola/permits/1275987845_1645584317.62/0/swagger-annotations-1-5-16-sources-
jar/io/swagger/annotations/License.java
* /opt/cola/permits/1275987845_1645584317.62/0/swagger-annotations-1-5-16-sources-
jar/io/swagger/annotations/Info.java
* /opt/cola/permits/1275987845_1645584317.62/0/swagger-annotations-1-5-16-sources-
jar/io/swagger/annotations/Example.java
* /opt/cola/permits/1275987845_1645584317.62/0/swagger-annotations-1-5-16-sources-
jar/io/swagger/annotations/Api.java
*
/opt/cola/permits/1275987845_1645584317.62/0/swagger-annotations-1-5-16-sources-
jar/io/swagger/annotations/Tag.java
* /opt/cola/permits/1275987845_1645584317.62/0/swagger-annotations-1-5-16-sources-
jar/io/swagger/annotations/Contact.java
```

\* /opt/cola/permits/1275987845\_1645584317.62/0/swagger-annotations-1-5-16-sources-jar/io/swagger/annotations/ApiOperation.java  
\* /opt/cola/permits/1275987845\_1645584317.62/0/swagger-annotations-1-5-16-sources-jar/io/swagger/annotations/ApiModelProperty.java  
\* /opt/cola/permits/1275987845\_1645584317.62/0/swagger-annotations-1-5-16-sources-jar/io/swagger/annotations/ApiImplicitParam.java  
\* /opt/cola/permits/1275987845\_1645584317.62/0/swagger-annotations-1-5-16-sources-jar/io/swagger/annotations/ExampleProperty.java  
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\* /opt/cola/permits/1275987845\_1645584317.62/0/swagger-annotations-1-5-16-sources-jar/io/swagger/annotations/ApiParam.java  
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## 1.662 cyrus-sasl 2.1.27-6.el8\_5

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jar/com/google/errorprone/annotations/concurrent/LockMethod.java  
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-  
jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java  
*  
/opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-  
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* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/MustBeClosed.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/CompatibleWith.java
*
```

```
/opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/DoNotMock.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
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* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/CheckReturnValue.java
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jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
*
/opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
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jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/concurrent/LazyInit.java
*
/opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/CompileTimeConstant.java
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jar/com/google/errorprone/annotations/Immutable.java
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jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
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*/opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/HashingSource.java
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- \* /opt/cola/permits/1294800837\_1648249590.43/0/okio-1-15-0-sources-jar/okio/InflaterSource.java
- \* /opt/cola/permits/1294800837\_1648249590.43/0/okio-1-15-0-sources-jar/okio/Buffer.java
- \*
- /opt/cola/permits/1294800837\_1648249590.43/0/okio-1-15-0-sources-jar/okio/AsyncTimeout.java
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- \* /opt/cola/permits/1294800837\_1648249590.43/0/okio-1-15-0-sources-jar/okio/ForwardingSource.java
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- \* /opt/cola/permits/1294800837\_1648249590.43/0/okio-1-15-0-sources-jar/okio/Util.java
- \* /opt/cola/permits/1294800837\_1648249590.43/0/okio-1-15-0-sources-jar/okio/Source.java
- \* /opt/cola/permits/1294800837\_1648249590.43/0/okio-1-15-0-sources-jar/okio/BufferedSource.java
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- \* /opt/cola/permits/1294800837\_1648249590.43/0/okio-1-15-0-sources-jar/okio/GzipSource.java
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## 1.668 checker 1.9.3

## 1.669 sshpk 1.17.0

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\* /opt/cola/permits/1300482759\_1649149014.06/0/re2j-1-6-sources-jar/com/google/re2j/Parser.java

\* /opt/cola/permits/1300482759\_1649149014.06/0/re2j-1-6-sources-jar/com/google/re2j/Prog.java

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```
* /opt/cola/permits/1300482759_1649149014.06/0/re2j-1-6-sources-jar/com/google/re2j/Regexp.java
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*
```

```
/opt/cola/permits/1300482759_1649149014.06/0/re2j-1-6-sources-
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## 1.676 graceful-fs 4.2.10

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## 1.682 xz 5.2.4-1ubuntu1.1

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Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <lasse.collin@tukaani.org>

<https://tukaani.org/xz/lists.html>

Source:

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Comment:

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Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

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Origin: configure.ac from XZ Utils,

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dos/config.h was generated with autoheader, which tells Autoconf to  
output a script to generate a config.h file and then runs it.

Files: po/Makevars

Origin: gettext-runtime/po/Makevars (gettext-0.12)

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## 1.683 gzip 1.10-0ubuntu4.1

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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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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## 1.684 bash 5.0-6ubuntu1.2

### 1.684.1 Available under license :

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Version 3, 29 June 2007

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This is Debian GNU/Linux's prepackaged version of the FSF's GNU Bash, the Bourne Again SHell.

This package was put together by Matthias Klose <[doko@debian.org](mailto:doko@debian.org)>, from the following sources:

bash: <ftp.gnu.org:/pub/gnu/bash/bash-4.3.tar.gz>

Bash homepage: <http://tiswww.case.edu/php/chet/bash/bashtop.html>

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readline/doc/{hstech,hsuser}.texi (GNU History Library Manual)

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Found in path(s):

\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-  
jar/com/mongodb/client/gridfs/package-info.java

\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-  
jar/com/mongodb/client/vault/package-info.java

\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-  
jar/com/mongodb/client/internal/ClientEncryptionImpl.java

\*

/opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-  
jar/com/mongodb/client/gridfs/GridFSFindIterableImpl.java

\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-



```

jar/com/mongodb/client/internal/KeyRetriever.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/MongoIterable.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/gridfs/GridFSDownloadStreamImpl.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/MongoClientImpl.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/MongoClient.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/FindIterable.java
*
/opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/SimpleMongoClients.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/ListCollectionsIterable.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/ListDatabasesIterableImpl.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/gridfs/GridFSBucket.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/MongoDatabaseImpl.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/MongoDatabase.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/ChangeStreamIterableImpl.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/MongoBatchCursorAdapter.java
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/opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/gridfs/GridFSDownloadStream.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/MongoCollection.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/KeyManagementService.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/MapReduceIterable.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/MongoCursor.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/ClientSessionBinding.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/MongoClientFactory.java
*
/opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/gridfs/GridFSBuckets.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/gridfs/GridFSUploadStreamImpl.java

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\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/MapReduceIterableImpl.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/MappingIterable.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/ListDatabasesIterable.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/Crypts.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/ListCollectionsIterableImpl.java  
\*  
/opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/package-info.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/AggregateIterableImpl.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/OperationExecutor.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/vault/ClientEncryption.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/Crypt.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/ListIndexesIterable.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/SimpleMongoClient.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/DistinctIterableImpl.java  
\*  
/opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/gridfs/GridFSFindIterable.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/ChangeStreamIterable.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/DistinctIterable.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/MongoClients.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/gridfs/GridFSBucketImpl.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/gridfs/GridFSUploadStream.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/CryptBinding.java  
\*  
/opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/ListIndexesIterableImpl.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/MongoMappingCursor.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-

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jar/com/mongodb/client/internal/CommandMarker.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/MongoClientDelegate.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/FindIterableImpl.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/MongoChangeStreamCursorImpl.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/MongoCollectionImpl.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/AggregateIterable.java
*
/opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/CollectionInfoRetriever.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/MongoChangeStreamCursor.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/MongoIterableImpl.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/CryptConnection.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/vault/ClientEncryptions.java
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* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/ClientSession.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/package-info.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/ClientSessionClock.java
*
```

/opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/TransactionBody.java  
\* /opt/cola/permits/1316593510\_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/ClientSessionImpl.java

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to most

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

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

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

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

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

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

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library

facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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#### END OF TERMS AND CONDITIONS

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 3, 29 June 2007

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## TERMS AND CONDITIONS

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The

"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate

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# 1.692 gpgme 1.13.1-11.el8

## 1.692.1 Available under license :

```
#+TITLE: GPGME Python Bindings HOWTO Examples
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltextra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}
```

\* Examples

```
:PROPERTIES:
:CUSTOM_ID: gpgme-python3-examples
:END:
```

The contents of this directory are the examples included in the /GNU Privacy Guard (GnuPG) Made Easy Python Bindings HOWTO/ file. Each script is explicitly for Python 3 and specifically for Python 3.4 or later.

Some of these scripts may work with Python 2.7, but there are no guarantees. They will include the relevant imports from the `=__future__=` module to facilitate that if possible.

\* Copyright and Licensing

```
:PROPERTIES:
:CUSTOM_ID: copyright-and-license
```

:END:

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\*\* Copyright (C) The GnuPG Project, 2018

:PROPERTIES:

:CUSTOM\_ID: copyright

:END:

Copyright The GnuPG Project, 2018.

\*\* License GPL compatible

:PROPERTIES:

:CUSTOM\_ID: license

:END:

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```
(21:protected-private-key(3:dsa(1:p129:_d8|po3s@!WGUOAXRC$_[8SN:y)o?2[.pVxn(kOc\Bk0zu&FnK)(1:q21:
vBeOP\p)(1:g129:fU/e(2hp@hjc2uE=Sg GO;ZkIyFnGM!GsG@
= _SZkII)(1:y128:K:9tA)4SU1 }sG`nZpx/imV^>A;V%?5!!sS{!=-6@|
=d
)(9:protected25:openpgp-s2k3-sha1-aes-cbc((4:sha18:Li7:6452224)16:,kO{,}80:z7OCG/sB48(H9%*ojSO
OGSma`YUs1h<_)(12:protected-at15:20130812T105134)))
cython
;;; gpgme-package.lisp
```

;;; Copyright (C) 2006 g10 Code GmbH

;;;

;;; This file is part of GPGME-CL.

;;;

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;;; it under the terms of the GNU General Public License as published

;;; by the Free Software Foundation; either version 2 of the License,

;;; or (at your option) any later version.

```
;;;
;;; GPGME-CL is distributed in the hope that it will be useful, but
;;; WITHOUT ANY WARRANTY; without even the implied warranty of
;;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
;;; Lesser General Public License for more details.
```

```
;;;
;;; You should have received a copy of the GNU General Public License
;;; along with GPGME; if not, write to the Free Software Foundation,
;;; Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.
```

```
;;; Conventions:
```

```
;;;
;;; gpg-error is used for error handling.
```

```
;;;
;;; Standard I/O streams are used for input and output.
```

```
(defpackage #:gpgme
  (:use #:common-lisp #:cffi #:gpg-error)
  (:import-from #:trivial-garbage
    #:finalize)
  (:export #:check-version
    #:*version*
    #:context
    #:protocol
    #:armorp
    #:textmodep
    #:+include-certs-default+
    #:include-certs
    #:keylist-mode
    #:signers
    #:sig-notations
    #:with-context
    #:key-data
    #:get-key
    #:op-encrypt
    #:op-decrypt
    #:op-sign
    #:op-verify
    #:op-import
    #:op-export))
\input texinfo @c -*- texinfo -*-
@c %**start of header
@setfilename index.info
@settitle GNU Privacy Guard (GnuPG) Made Easy Python Bindings
@documentencoding utf-8
@documentlanguage en
@c %**end of header
```

@finalout  
@titlepage  
@title GNU Privacy Guard (GnuPG) Made Easy Python Bindings  
@author Ben McGinnes  
@end titlepage

@contents

@ifnottex  
@node Top  
@top GNU Privacy Guard (GnuPG) Made Easy Python Bindings  
@end ifnottex

@menu  
\* GPGME Python Bindings::

@detailmenu  
--- The Detailed Node Listing ---

GPGME Python Bindings

\* Contents::

@end detailmenu  
@end menu

@node GPGME Python Bindings  
@chapter GPGME Python Bindings

@menu  
\* Contents::  
@end menu

@node Contents  
@section Contents

@itemize  
@item  
@uref{short-history, A short history of the project}  
@item  
@uref{what-is-new, What's New}  
@itemize  
@item  
@uref{maintenance-mode, Maintenance Mode} (from January, 2019)  
@end itemize  
@item  
@uref{what-was-new, What Was New}  
@item

@uref{gpgme-python-howto, GPGME Python Bindings HOWTO}

@end

itemize

@bye

2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2011-05-12 Marcus Brinkmann <marcus@g10code.com>

\* gpgme.texi (I/O Callback Example): Fix example code.

\* gpgme.texi (Generating Keys): Fix OpenPGP parameters and reference GPG and GPGSM manual.

2010-01-05 Werner Koch <wk@g10code.com>

\* gpgme.texi (Changing Passphrases): New.

2009-07-21 Werner Koch <wk@g10code.com>

\* uiserver.texi (UI Server Encrypt): Add --expect-sign option to PREP\_ENCRYPT.

2009-06-16 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Result Management): New section.

2009-06-16 Werner Koch <wk@g10code.com>

\* gpgme.texi (Exporting Keys): Document gpgme\_op\_export\_keys.  
(Importing Keys): Document gpgme\_op\_import\_keys.  
(Data Buffer Meta-Data): Document URL encodings.

2009-05-28

Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Library Version Check): Document selftest error.  
(Creating Contexts): Likewise.

2009-05-18 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Encrypting a Plaintext): Document GPGME\_ENCRYPT\_NO\_ENCRYPT\_TO.

2009-05-05 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Engine Information): Replace path by file\_name.

2008-11-28 Werner Koch <wk@g10code.com>

\* gpgme.texi (Listing Keys): Change description of the return value to match the code. Spotted by Colin Leroy.

2008-10-15 Werner Koch <wk@g10code.com>

\* uiserver.texi (Miscellaneous UI Server Commands): Add option --protocol to the SENDER command.

2008-07-17 Werner Koch <wk@g10code.com>

\* module-overview.sk: New.

2008-07-04 Werner Koch <wk@g10code.com>

\* gpgme.texi (Algorithms): Add a hint on symmetric only encryption.

2008-06-27 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Cancellation): Document gpgme\_cancel\_async.

2008-06-25

Werner Koch <wk@g10code.com>

\* gpgme.texi (Listing Keys): Updated example to the current API. Noted by Nico Schottelius.

2008-06-05 Werner Koch <wk@g10code.com>

\* uiserver.texi (Miscellaneous UI Server Commands): Describe START\_CONFDialog.

2008-06-04 Werner Koch <wk@g10code.com>

\* gpgme.texi: Use @copying command. Change license to GPLv3. Include protocol specs from GpgOL and GPGEx. Minor cleanups.

2008-03-11 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (File Based Data Buffers): Document the need for blocking operations.



(Callback Based Data Buffers): Likewise.

2008-03-05 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Library Version Check): Rename snippet function to init\_gpgme.

(I/O Callback Example): Call it here.

2008-01-28 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi: Document that data encoding affects some output data objects now.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Protocols and Engines):  
Document GPGME\_PROTOCOL\_UNKNOWN.

2007-09-11 Werner Koch <wk@g10code.com>

\* gpgme.texi (I/O Callback Example): Typo fix.

2007-08-07 Werner Koch <wk@g10code.com>

\* gpgme.texi (Verify): Describe chain\_model.

2007-07-12 Werner Koch <wk@g10code.com>

\* gpgme.texi (Library Version Check): Add remark that the socket layer will get initialized.

2007-06-05 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Advanced Key Editing): New section.

2007-05-21 Werner Koch <wk@g10code.com>

\* Makefile.am (online): New target.

2007-05-18 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Error Strings): Fix documentation of gpgme\_strerror\_r.

2006-11-01 Moritz Schulte <moritz@g10code.com>

\* gpgme.texi (Data Buffer I/O Operations): Fixed entry for gpgme\_data\_seek: OFFSET is not a pointer; some s/whence/offset/.

2006-09-25 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Destroying Data Buffers): Clarify that gpgme\_data\_release\_and\_get\_mem destroys DH unconditionally.

2005-03-24

Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Library Version Check): Make example code compatible to W32 systems.

2006-06-21 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Passphrase Callback): Fix inverted condition in description.

2005-12-20 Werner Koch <wk@g10code.com>

\* gpgme.texi (Verify): Document pka\_trust.

2005-12-06 Werner Koch <wk@g10code.com>

\* gpgme.texi (Key Management): Updated to match the fixes for subkey fingerprints and the secret flag.

2005-10-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Destroying Data Buffers): Document gpgme\_free.

2005-10-02 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Management): Add the new member notations of gpgme\_sig\_key\_t.  
(Key Listing Mode): Document GPGME\_KEYLIST\_MODE\_SIG\_NOTATIONS.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi: Enclose all return parameters of deftypefuns in curly brackets.

\* gpgme.texi (Signature Notation Data): New section.  
(Verify): Added more about the notation data structure.

2005-09-30 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Data Buffer I/O Operations, Data Buffer Meta-Data):

New subsections.

\* gpgme.texi: Replace plaintext\_filename with file\_name.

\* gpgme.texi (Key Management): Document is\_qualified.

2005-07-27 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Decrypt): Add plaintext\_filename to

gpgme\_decrypt\_result\_t.

(Verify): Likewise for gpgme\_verify\_result\_t.

2005-06-03 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Verify): Add information about new fields in  
gpgme\_signature\_t.

\* gpgme.texi (Decrypt): Add gpgme\_recipient\_t.

2005-05-28 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Listing Mode): Fix return type of

gpgme\_set\_keylist\_mode.

Reported by "Sergio" <ml\_sergico@virgilio.it>.

2005-04-28 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Included Certificates): Document

GPGME\_INCLUDE\_CERTS\_DEFAULT.

2005-01-12 Marcus

Brinkmann <marcus@g10code.de>

\* gpgme.texi (Engine Configuration): New section.

(Crypto Engine): New subsection.

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

\* lesser.texi (Library Copying): Change from @appendixsec to  
@appendix.

\* gpgme.texi (Features): Change reference to GPL to one to LGPL.

\* Makefile.am: Change license to LGPL.

(gpgme\_TEXINFOS): Replace gpl.texi with lesser.texi.

\* gpgme.texi: Change license to LGPL (also for documentation of  
GPGME's license).

\* lesser.texi: New file.

\* gpl.texi: File removed.

\* gpgme.texi (Creating Contexts): Fix cut&paste error. Reported by Noel Torres <envite@rolamasao.org>.

2004-09-30 Marcus Brinkmann <marcus@g10code.de>

\* Makefile.am (gpgme\_TEXINFOS): Remove fdl.texi.

\* gpgme.texi: Do not include fdl.texi. Change license to GPL.

\* fdl.texi: File removed.

2004-09-29 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Management): Change type of keylist\_mode in gpgme\_key\_t to gpgme\_keylist\_mode\_t.

2004-09-28

Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Passphrase Callback): Fix last change.

2004-09-27 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Passphrase Callback): Document GPG\_ERR\_NOT\_IMPLEMENTED.

\* gpgme.texi: Update copyright year for tex version.

2004-07-29 Moritz Schulte <moritz@g10code.com>

\* gpgme.texi (Verify): Fix gpgme\_get\_key example (ancient force\_update argument was still there).

2004-06-08 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Listing Keys): Elaborate on the length restrictions on search patterns.

\* gpgme.texi (Decrypt and Verify): Document the NO\_DATA error code.

(Verify): Document the relationship between gpgme\_op\_verify\_result and the decrypt and verify operations.

2004-05-21 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Verify): Document GPG\_ERR\_CERT\_REVOKED status.

\* gpgme.texi (Decrypt): Add note about new field wrong\_key\_usage

of gpgme\_decrypt\_result\_t.

\* gpgme.texi (Key Management): Add  
note about new field  
keylist\_mode of gpgme\_key\_t.

2004-04-29 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Verify): Correct type of member wrong\_key\_usage.

2004-03-29 Moritz Schulte <moritz@duesseldorf.ccc.de>

\* gpgme.texi (Verify): Fix type of gpgme\_op\_verify\_result.  
\* gpgme.texi (Key Listing Mode): Typo fix.

2004-03-23 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Library Version Check): Fix the instruction when to  
set the locale.

2004-03-03 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (I/O Callback Example Qt): New section by Marc Mutz.

2004-02-24 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (cancellation): New section.

2004-02-17 Werner Koch <wk@gnupg.org>

\* gpgme.texi (Key Listing Mode): Doc KEYLIST\_MODE\_VALIDATE.

2004-02-06 Moritz Schulte <mo@g10code.com>

\* gpgme.texi: A couple of small fixes regarding the Largefile  
Support section.

2004-02-01 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Largefile Support): New  
section.

2004-01-13 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Management): Fix exportable field.

2003-12-25 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Management): Rename member class in gpgme\_key\_sig\_t to sig\_class.  
(Creating a Signature): Likewise for gpgme\_signature\_t.

2003-12-23 Moritz Schulte <mo@g10code.com>

\* gpgme.texi (Listing Keys): Minor clarification for gpgme\_get\_key.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Signal Handling): New section.

2003-09-14 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Multi Threading): Correct documentation on memory synchronization requirement.

\* gpgme.texi (Locale): New section.  
(Multi Threading): Set locale in example.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Error Strings): Add gpgme\_strerror\_r.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Multi Threading): Update documentation.

2003-09-03 Marcus Brinkmann <marcus@g10code.de>

\*  
gpgme.texi (Header): We don't use the assuan namespace anymore.  
Document new thread options.

2003-08-14 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Creating a Signature): Change type of member class to unsigned int.

2003-08-04 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Verify): Get error code from SIG->status in the code for gpgme\_get\_sig\_status.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Management): Add can\_authenticate flag.

\* gpgme.texi (Listing Keys): Document GPG\_ERR\_AMBIGUOUS\_NAME for gpgme\_get\_key.

2003-07-29 Marcus Brinkmann <marcus@g10code.de>

\* Makefile.am (EXTRA\_DIST): Remove variable.

\* gpgme.texi (Encrypting a Plaintext): Bad passphrase is only possible with symmetric encryption, change the wording to reflect that.

\* gpgme.texi (Creating a Signature): Document GPG\_ERR\_UNUSABLE\_SECKEY.

\* gpgme.texi (Encrypting a Plaintext): Mention encrypt and sign operations in result function.  
(Creating a Signature): Likewise.

2003-07-23 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Listing Mode): Remove word duplication.  
(Listing Keys): Remove mentioning of force argument.  
(Verify): Don't mention r\_stat. Fix some typos.  
(Decrypt and Verify): Correct info how to get the result. Don't mention r\_stat.  
(Manipulating Data Buffers): Fix documentation of return value.  
(Listing Keys): Update examples.  
(Decrypt): Result might also be available when operation failed.  
(Verify): Result might also be available when operation failed.  
All spotted by Stphane Corthisy.

2003-07-22 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Error Sources): Fix cut and paste error.

2003-07-09 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Management): Clarify difference between can\_sign and can\_certify.  
(Information About Keys): Likewise for GPGME\_ATTR\_CAN\_SIGN and GPGME\_ATTR\_CAN\_CERTIFY.

2003-07-08 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Progress

Meter Callback): Change return type of  
gpgme\_progress\_cb\_t to void.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi: Add 2003 to copyright notice.

\* gpgme.texi (Header): Fix name space documentation on  
libgpg-error.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Multi Threading): Remove reference to  
gpgme\_recipients\_t.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Crypto Operations): Rename gpgme\_invalid\_user\_id\_t  
to gpgme\_invalid\_key\_t.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi: Change error codes to GPG\_ERR\_\* variants.  
(Error Handling): Rewritten.

2003-05-29 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Exporting Keys): Change and document prototypes.  
Add new gpgme\_op\_export\_ext and gpgme\_op\_export\_ext\_start  
variants.

(Selecting Recipients): Section removed.

(Encrypting a Plaintext): Change prototypes and document the  
changes.

2003-05-28 Marcus Brinkmann <marcus@g10code.de>

\*

gpgme.texi (Exporting Keys): Change argument type from  
gpgme\_recipient\_t to gpgme\_user\_id\_t.

(Encrypting a Plaintext): Likewise.

(Selecting Recipients): Rewritten.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Protocol Selection): Do not use @acronym in @node  
because that breaks texi2dvi.

\* gpgme.texi (Passphrase Callback): Document new prototype.



2003-05-18 Marcus Brinkmann <marcus@g10code.de>

- \* gpgme.texi (Header): Remove Gpgme as namespace prefix. Add `_GPGME` to namespace prefix.
- \* gpgme.texi (Multi Threading): Add note about link order.

2003-05-04 Marcus Brinkmann <marcus@g10code.de>

- \* gpgme.texi (Listing Keys): Document what happens if key is not found.
- \* gpgme.texi (Importing Keys): Fix cut and paste error.

2003-04-30 Marcus Brinkmann <marcus@g10code.de>

- \* gpgme.texi (Encrypting a Plaintext): Remove reference to `gpgme_get_op_info`.  
(Detailed Results): Subsection removed.
- \* gpgme.texi (Key Listing Mode): Add `GPGME_KEYLIST_MODE_SIGS`.  
(Manipulating Keys): Add obsolescence note.  
(Key Signatures): Likewise.  
(Information About Keys): Likewise.  
(Key Management): Add new data types `GpgmeSubkey`, `GpgmeKeySig`, `GpgmeUserID`, and all the information about `GpgmeKey`.

2003-04-29 Marcus Brinkmann <marcus@g10code.de>

- \* gpgme.texi (Listing Keys): Remove `force_update` argument from `gpgme_get_key`.
- \* gpgme.texi (Trust Item Management): Add data members of `GpgmeTrustItem` type.  
(Information About Trust Items): Add note about obsolescence.  
(Manipulating Trust Items): Add `gpgme_trust_item_ref` and `gpgme_trust_item_unref`.

2003-04-28 Marcus Brinkmann <marcus@g10code.de>

- \* gpgme.texi (Verify): Rewritten to take into account new and deprecated functions and data types.
- \* gpgme.texi (Decrypt): Descript `gpgme_op_decrypt_result` and `GpgmeDecryptResult`.

2003-04-27 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Encrypting a Plaintext): Add info about GpgmeEncryptResult and gpgme\_op\_encrypt\_result.

\* gpgme.texi

(Creating a Signature): Add info about

GpgmeNewSignature, GpgmeSignResult and gpgme\_op\_sign\_result.

(Crypto Operations): Add GpgmeInvalidUserID.

(Algorithms): New chapter.

\* gpgme.texi (Deleting Keys): Document

GPGME\_Ambiguous\_Specification.

(Error Values): Remove GPGME\_Invalid\_Type and GPGME\_Invalid\_Mode.

Add GPGME\_Unknown\_Reason, GPGME\_Not\_Found,

GPGME\_Ambiguous\_Specification, GPGME\_Wrong\_Key\_Usage,

GPGME\_Key\_Revoked, GPGME\_Key\_Expired, GPGME\_No\_CRL\_Known,

GPGME\_CRL\_Too\_Old, GPGME\_Policy\_Mismatch, GPGME\_No\_Secret\_Key,

GPGME\_Key\_Not\_Trusted, GPGME\_Issuer\_Missing, GPGME\_Chain\_Too\_Long,

GPGME\_Unsupported\_Algorithm, GPGME\_Sig\_Expired,

GPGME\_Bad\_Signature, GPGME\_No\_Public\_Key.

2003-04-25 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Importing Keys): Change GPGME\_IMPORT\_PRIVATE to GPGME\_IMPORT\_SECRET.

\* gpgme.texi (Importing Keys): Remove note about gpgme\_get\_op\_info.

(Detailed Results): Remove note about import.

\* gpgme.texi (Importing Keys): Add documentation

for

GpgmeImportStatus, GpgmeImportResult and gpgme\_op\_import\_result.

\* gpgme.texi (Generating Keys): Fix documentation of public and secret arguments.

2003-04-24 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Generating Keys): Document changed gpgme\_op\_genkey and new gpgme\_op\_genkey\_result function. Document GpgmeGenKeyResult data type.

\* gpgme.texi (Error Values): Rename GPGME\_No\_Passphrase to GPGME\_Bad\_Passphrase.

\* gpgme.texi (Decrypt): Likewise.

(Decrypt and Verify): Likewise.

(Creating a Signature): Likewise.

(Encrypting a Plaintext): Likewise.

\* gpgme.texi (Error Values): Rename GPGME\_No\_Recipients to GPGME\_No\_UserID and GPGME\_Invalid\_Recipient to GPGME\_Invalid\_UserID.  
(Encrypting a Plaintext): Likewise.

\* gpgme.texi (Error Values): Remove GPGME\_Busy and GPGME\_No\_Request.  
(Listing Keys): Likewise.  
(Listing Trust Items): Likewise.

2003-02-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Cancelling an Operation): Removed.  
(Passphrase  
Callback): Document new type for GpgmePassphraseCb.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Engine Information): Rename member part to file\_name.

\* gpgme.texi (Protocols and Engines): Document gpgme\_get\_protocol\_name.

\* gpgme.texi (Engine Information): Rewritten.

2003-01-29 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (I/O Callback Interface): Document new even GPGME\_EVENT\_START.  
(Waiting For Completion): Document new possible return values.  
(I/O Callback Interface): Document return type of GpgmeIOCb.

2003-01-29 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Hooking Up Into Idle Time): Section removed.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Verify): Drop R\_STAT argument in gpgme\_op\_verify.  
\* gpgme.texi (Decrypt and Verify): Likewise for gpgme\_op\_decrypt\_verify.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Information About Keys): Document that GPGME\_ATTR\_IS\_SECRET is not representable

as a string anymore.

2002-12-22 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Signatures): New section.  
(Listing Keys): Add gpgme\_get\_key.

2002-12-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Memory Based Data Buffers): New subsection.  
(File Based Data Buffers): Likewise.  
(Callback Based Data Buffers): Likewise.  
(Manipulating Data Buffers): Update interfaces. Add  
gpgme\_data\_seek.  
\* gpgme.texi (Engine Version Check): Remove gpgme\_check\_engine.

2002-11-21 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Verify): Document the new interface.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Generating Keys): Document new argument to  
gpgme\_op\_genkey.

2002-11-05 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Verify): Fix prototype of gpgme\_get\_sig\_key.  
Reported by Miguel Coca <e970095@zipi.fi.upm.es>.

2002-08-30 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Selecting Signers): Fix reference count.

2002-08-21

Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Header): Document name space.

2002-08-20 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Importing Keys): Document gpgme\_op\_import\_ext.

\* gpgme.texi (Importing Keys): Undocument EOF.

2002-08-14 Werner Koch <wk@gnupg.org>

\* gpgme.texi (Information About Keys): Changed GPGME\_ATTR\_TYPE.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Deleting Keys): Say that secret keys might not be deleted.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Information About Keys): Document (badly) the new key attributes.

\* gpgme.texi (Manipulating Data Buffers): Mention that backend tries to detect encoding automatically.

2002-07-03 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Run Control): Update this section.  
(Waiting For Completion): Likewise for this subsection.  
(Cancelling an Operation): Likewise for this subsection.  
(Using External Event Loops): New subsection with several subsubsections.

2002-06-28

Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Multi Threading): Remove item about the need to synchronize anything against gpgme\_wait (except gpgme\_wait itself).

2002-06-27 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Information About Keys): Fix documentation for IDX.  
(Information About Trust Items): Likewise.

2002-06-26 Werner Koch <wk@gnupg.org>

\* gpgme.texi (Importing Keys): Document the return value -1 of gpgme\_op\_import.

2002-06-20 Werner Koch <wk@gnupg.org>

\* gpgme.texi (Verify): Explain the new whatidx variable.

2002-06-10 Werner Koch <wk@gnupg.org>

\* gpgme.texi (Verify): Document attribute GPGME\_ATTR\_ERRTOK.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Multi Threading): Document new autodetection.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

\* Makefile.am (DISTCLEANFILES): New variable.

2002-05-26 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi: Some typographical corrections throughout.

2002-05-09 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Using Automake): New section.

2002-05-09 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Multi Threading): Escape { and }.

2002-05-09 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Overview): Replace note about thread-safeness.  
(Multi Threading): New section.

2002-05-03 Werner Koch <wk@gnupg.org>

\* gpgme.texi (Manipulating Data Buffers): Changed some data types to void\*.

(Protocol Selection): Added gpgme\_get\_protocol.

(Verify): Updated to include the new attribute functions and status codes.

2002-04-27 Werner Koch <wk@gnupg.org>

\* gpgme.texi (Manipulating Data Buffers): New type GpgmeDataEncoding.

2002-04-23 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Passphrase Callback): Document that either return argument can be NULL.

(Progress Meter Callback): Likewise.

2002-04-22 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Passphrase Callback): Fix small typo. Document the new function gpgme\_get\_passphrase\_cb.

(Progress Meter Callback): Document the new function  
gpgme\_get\_progress\_cb.

2002-04-16 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Creating a Signature): Fix function name. Reported  
by Wichert Ackerman <wichert@debian.org>.

2002-03-29 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (direntry): End index entry with a full stop.  
Patch submitted by Jose Carlos Garcia Sogo <jsogo@debian.org>.

2002-03-17 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Detailed Results): Fix syntax error in last change.

2002-03-08 Werner Koch <wk@gnupg.org>

\* gpgme.texi (Detailed Results): Import does also return info.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Encrypting a Plaintext): Document symmetric  
encryption.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Error Strings): Add example.

\* gpgme.texi (Listing Keys): Likewise.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

\*

gpgme.texi (Information About Keys): Document GPGME\_ATTR\_EXPIRE.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Verify): Document verification of normal and  
cleartext signatures.

2002-02-27 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Listing Keys): Document gpgme\_op\_keylist\_ext\_start.

2002-02-27 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Encrypting a Plaintext): Document

GPGME\_Invalid\_Recipients.

(Error Values): Likewise.

2002-02-26 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Encrypting a Plaintext): Document  
gpgme\_op\_encrypt\_sign and gpgme\_op\_encrypt\_sign\_start.

2002-02-25 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Creating a Signature): Add a note about  
certificates to include.  
(Included Certificates): New section.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Detailed Results): Remove literal tags.  
(Generating Keys): Update documentation.

\* gpgme.texi (Generating Keys):  
Fix syntax error.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Waiting For Completion): Adjust doc to changes in  
the code.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Listing Mode): Update documentation.

2002-01-31 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Generating Keys): Document error at creation  
failure.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Deleting Keys): Document new error values.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Importing Keys): Add reference to gpgme\_get\_op\_info.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi: Some spell checking.



2002-01-30 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi: Add all the gpgme\_op\_\*\_start functions.  
Fill the concept index with many, many entries.

2002-01-29 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Run Control): New section.  
(Verify): Document gpgme\_get\_notation.  
(More Information):  
New section describing gpgme\_get\_op\_info.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Passphrase callback): Change GpgmePassphraseCb's  
R\_HD type from void\* to void\*\*.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Creating data buffers): Change  
gpgme\_data\_new\_from\_filepart's LENGTH type from off\_t to size\_t.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Generating keys): New subsection.  
(Exporting keys): Likewise.  
(Importing keys): Likewise.  
(Deleting keys): Likewise.

2002-01-16 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi: g10Code -> g10 Code  
  
\* gpgme.texi (Top): Complete detailmenu.  
  
\* gpgme.texi: Convert embarrassing cruft to the real thing.

2002-01-16 Marcus Brinkmann <marcus@g10code.de>

\* ChangeLog: New file.  
\* gpgme.texi: Likewise.  
\* gpl.texi: Likewise.  
\* fdl.texi: Likewise.  
\* Makefile.am (info\_TEXINFOS): New variable.  
(gpgme\_TEXINFOS): Likewise.

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```
(21:protected-private-key(3:elg(1:p129:|B36I(s7}+ZJ/pvE;"tg7N ca"Gxvnyu&bB#h'7=89&oG
R<hO)(1:g1:)(1:y128:Ji|WU_UP}AQ\YMhAl|2e{ _tcMNDg){ QnWsK 4pY {$bDCs)(9:protected25:openpgp-s2k3-
sha1-aes-cbc((4:sha18:JcE7:6452224)16: i[Q*vK)192:FJA!O!ZAF
```

biJ&Tsb!t

```
&9@R\~V+x>?sedDz-W(yqf?u^e?s1saV8<T0:tC5%ZMh?$,y_e[1D)(12:protected-at15:20130812T105135)))
```

(private-key

(oid.1.2.840.113549.1.1.1

(n

```
#00e0ce96f90b6c9e02f3922beada93fe50a875eac6bcc18bb9a9cf2e84965caa2d1ff95a7f542465c6c0c19d276e4526ce
048868a7a914fd343cc3a87dd74291ffc565506d5bbb25cbac6a0e2dd1f8bcaab0d4a29c2f37c950f363484bf269f78914
40464baf79827e03a36e70b814938eebdc63e964247be75dc58b014b7ea251#)
```

(e #010001#)

(d

```
#046129F2489D71579BE0A75FE029BD6CDB574EBF57EA8A5B0FDA942CAB943B117D7BB95E5D28875E0F
9FC5FCC06A72F6D502464DABDED78EF6B716177B83D5BDC543DC5D3FED932E59F5897E92E6F58A0F334
24106A3B6FA2CBF877510E4AC21C3EE47851E97D12996222AC3566D4CCB0B83D164074ABF7DE655FC244
6DA1781#)
```

(p

```
#00e861b700e17e8afe6837e7512e35b6ca11d0ae47d8b85161c67baf64377213fe52d772f2035b3ca830af41d8a4120e
1c1c70d12cc22f00d28d31dd48a8d424f1#)
```

(q

```
#00f7a7ca5367c661f8e62df34f0d05c10c88e5492348dd7bddc942c9a8f369f935a07785d2db805215ed786e4285df16
58eed3ce84f469b81b50d358407b4ad361#)
```

(u

```
#304559a9ead56d2309d203811a641bb1a09626bc8eb36ffa23c968ec5bd891eebbafc73ae666e01ba7c8990bae06cc2
bbe10b75e69fcacb353a6473079d8e9b#)
```

)

)

# libpgme.vers - List of symbols to export.

# Copyright (C) 2002, 2004, 2005, 2009, 2012 g10 Code GmbH

#

# This file is part of GPGME.

#

# GPGME is free software; you can redistribute it and/or modify

# it under the terms of the GNU Lesser general Public License as

# published by the Free Software Foundation; either version 2.1 of

# the License, or (at your option) any later version.

#

```
# GPGME is distributed in the hope that it will be useful,  
# but WITHOUT ANY WARRANTY; without even the implied warranty of  
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
# GNU Lesser General Public License for more details.  
#  
# You should have received a copy of the GNU Lesser General Public  
# License along with this program; if not, see <https://www.gnu.org/licenses/>.
```

```
#-----  
# Please remember to add new functions also to gpgme.def  
#-----
```

```
GPGME_1.1 {  
  global:  
    gpgme_set_engine_info;  
  
    gpgme_ctx_get_engine_info;  
    gpgme_ctx_set_engine_info;  
  
    gpgme_data_set_file_name;  
    gpgme_data_get_file_name;  
    gpgme_data_identify;  
  
    gpgme_sig_notation_clear;  
    gpgme_sig_notation_add;  
    gpgme_sig_notation_get;  
  
    gpgme_free;  
  
    gpgme_op_getauditlog_start;  
    gpgme_op_getauditlog;  
  
    gpgme_conf_release;  
    gpgme_conf_arg_new;  
    gpgme_conf_arg_release;  
    gpgme_conf_opt_change;  
    gpgme_op_conf_load;  
    gpgme_op_conf_save;  
    gpgme_op_conf_dir;  
  
    gpgme_cancel_async;  
  
    gpgme_op_assuan_result;  
    gpgme_op_assuan_transact;  
    gpgme_op_assuan_transact_start;  
  
    gpgme_check_version_internal;
```

gpgme\_io\_read;  
gpgme\_io\_write;

gpgme\_result\_ref;  
gpgme\_result\_unref;

gpgme\_op\_import\_keys;  
gpgme\_op\_import\_keys\_start;  
gpgme\_op\_export\_keys;  
gpgme\_op\_export\_keys\_start;

gpgme\_op\_assuan\_transact\_ext;

gpgme\_wait\_ext;

gpgme\_op\_vfs\_mount\_result;  
gpgme\_op\_vfs\_mount;  
gpgme\_op\_vfs\_create;

gpgme\_key\_from\_uid;  
gpgme\_set\_sub\_protocol;  
gpgme\_get\_sub\_protocol;

gpgme\_op\_passwd\_start;  
gpgme\_op\_passwd;

gpgme\_set\_global\_flag;

gpgme\_io\_writen;

gpgme\_set\_pinentry\_mode;  
gpgme\_get\_pinentry\_mode;

gpgme\_get\_dirinfo;

gpgme\_op\_spawn\_start;  
gpgme\_op\_spawn;

gpgme\_set\_offline;  
gpgme\_get\_offline;

gpgme\_set\_status\_cb;  
gpgme\_get\_status\_cb;

gpgme\_pubkey\_algo\_string;  
gpgme\_set\_ctx\_flag;  
gpgme\_get\_ctx\_flag;  
gpgme\_data\_set\_flag;

```
gpgme_op_createkey_start;
gpgme_op_createkey;
gpgme_op_createsubkey_start;
gpgme_op_createsubkey;
gpgme_op_adduid_start;
gpgme_op_adduid;
gpgme_op_revuid_start;
gpgme_op_revuid;
gpgme_op_keysign_start;
gpgme_op_keysign;
gpgme_op_tofu_policy_start;
gpgme_op_tofu_policy;
gpgme_op_interact_start;
gpgme_op_interact;

gpgme_addrspec_from_uid;

gpgme_set_sender;
gpgme_get_sender;

gpgme_op_query_swdb;
gpgme_op_query_swdb_result;

gpgme_op_set_uid_flag_start;
gpgme_op_set_uid_flag;

gpgme_op_decrypt_ext;
gpgme_op_decrypt_ext_start;

gpgme_data_new_from_estream;

};
```

```
GPGME_1.0 {
global:
gpgme_check_version;
gpgme_get_engine_info;
gpgme_engine_check_version;

gpgme_err_code_from_errno;
gpgme_err_code_to_errno;
gpgme_err_make_from_errno;
gpgme_error_from_errno;
gpgme_strerror;
gpgme_strerror_r;
gpgme_strerror;
gpgme_strerror_r;
gpgme_strerror;
```

gpgme\_data\_get\_encoding;  
gpgme\_data\_new;  
gpgme\_data\_new\_from\_cbs;  
gpgme\_data\_new\_from\_fd;  
gpgme\_data\_new\_from\_file;  
gpgme\_data\_new\_from\_filepart;  
gpgme\_data\_new\_from\_mem;  
gpgme\_data\_new\_from\_stream;  
gpgme\_data\_read;  
gpgme\_data\_release;  
gpgme\_data\_release\_and\_get\_mem;  
gpgme\_data\_seek;  
gpgme\_data\_set\_encoding;  
gpgme\_data\_write;

gpgme\_get\_protocol\_name;  
gpgme\_hash\_algo\_name;  
gpgme\_pubkey\_algo\_name;

gpgme\_new;  
gpgme\_get\_armor;  
gpgme\_get\_include\_certs;  
gpgme\_get\_io\_cbs;  
gpgme\_get\_keylist\_mode;  
gpgme\_get\_passphrase\_cb;  
gpgme\_get\_progress\_cb;  
gpgme\_get\_protocol;  
gpgme\_get\_textmode;  
gpgme\_release;  
gpgme\_set\_armor;  
gpgme\_set\_include\_certs;  
gpgme\_set\_io\_cbs;  
gpgme\_set\_keylist\_mode;  
gpgme\_set\_locale;  
gpgme\_set\_passphrase\_cb;  
gpgme\_set\_progress\_cb;  
gpgme\_set\_protocol;  
gpgme\_set\_textmode;  
gpgme\_signers\_add;  
gpgme\_signers\_clear;  
gpgme\_signers\_count;  
gpgme\_signers\_enum;

gpgme\_key\_ref;  
gpgme\_key\_unref;  
gpgme\_key\_release;

gpgme\_trust\_item\_ref;  
gpgme\_trust\_item\_unref;

gpgme\_cancel;  
gpgme\_op\_card\_edit;  
gpgme\_op\_card\_edit\_start;  
gpgme\_op\_decrypt;  
gpgme\_op\_decrypt\_result;  
gpgme\_op\_decrypt\_start;  
gpgme\_op\_decrypt\_verify;  
gpgme\_op\_decrypt\_verify\_start;  
gpgme\_op\_delete;  
gpgme\_op\_delete\_start;  
gpgme\_op\_delete\_ext;  
gpgme\_op\_delete\_ext\_start;  
gpgme\_op\_edit;  
gpgme\_op\_edit\_start;  
gpgme\_op\_encrypt;  
gpgme\_op\_encrypt\_start;  
gpgme\_op\_encrypt\_ext;  
gpgme\_op\_encrypt\_ext\_start;  
gpgme\_op\_encrypt\_sign;  
gpgme\_op\_encrypt\_sign\_ext;  
gpgme\_op\_encrypt\_sign\_start;  
gpgme\_op\_encrypt\_sign\_ext\_start;  
gpgme\_op\_encrypt\_result;

gpgme\_op\_export;  
gpgme\_op\_export\_ext;  
gpgme\_op\_export\_ext\_start;  
gpgme\_op\_export\_start;  
gpgme\_op\_genkey;  
gpgme\_op\_genkey\_result;  
gpgme\_op\_genkey\_start;  
gpgme\_get\_key;  
gpgme\_op\_import;  
gpgme\_op\_import\_result;  
gpgme\_op\_import\_start;  
gpgme\_op\_keylist\_end;  
gpgme\_op\_keylist\_ext\_start;  
gpgme\_op\_keylist\_from\_data\_start;  
gpgme\_op\_keylist\_next;  
gpgme\_op\_keylist\_result;  
gpgme\_op\_keylist\_start;  
gpgme\_op\_sign;  
gpgme\_op\_sign\_result;  
gpgme\_op\_sign\_start;  
gpgme\_op\_trustlist\_end;

```
gpgme_op_trustlist_next;
gpgme_op_trustlist_start;
gpgme_op_verify;
gpgme_op_verify_result;
gpgme_op_verify_start;
gpgme_wait;
```

```
gpgme_data_new_with_read_cb;
gpgme_data_rewind;
gpgme_get_sig_status;
gpgme_get_sig_string_attr;
gpgme_get_sig_ulong_attr;
gpgme_get_sig_key;
gpgme_key_get_string_attr;
gpgme_key_get_ulong_attr;
gpgme_key_sig_get_string_attr;
gpgme_key_sig_get_ulong_attr;
gpgme_op_import_ext;
gpgme_trust_item_get_int_attr;
gpgme_trust_item_get_string_attr;
gpgme_trust_item_release;
```

```
gpgme_err_code_from_syserror;
gpgme_err_set_errno;
```

```
local:
```

```
 *;
```

```
};
```

```
::: -*- Mode: lisp -*-
```

```
::: Copyright (C) 2006 g10 Code GmbH
```

```
:::
```

```
::: This file is part of GPGME.
```

```
:::
```

```
::: GPGME is free software; you can redistribute it and/or
```

```
::: modify it under the terms of the GNU Lesser General Public License
```

```
::: as published by the Free Software Foundation; either version 2.1 of
```

```
::: the License, or (at your option) any later version.
```

```
:::
```

```
::: GPGME is distributed in the hope that it will be useful, but
```

```
::: WITHOUT ANY WARRANTY; without even the implied warranty of
```

```
::: MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
```

```
::: Lesser General Public License for more details.
```

```
:::
```

```
::: You should have received a copy of the GNU Lesser General Public
```

```
::: License along with GPGME; if not, write to the Free
```

```
::: Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA
```



;;; 02111-1307, USA.

```
(defpackage #:gpgme-system
  (:use #:common-lisp #:asdf))
```

```
(in-package #:gpgme-system)
```

```
(defsystem gpgme
  :description "GnuPG Made Easy."
  :author "g10 Code GmbH"
  :version "1.13.1"
  :licence "GPL"
  :defsystem-depends-on ("cffi-grovel")
  :depends-on ("cffi" "gpg-error" "trivial-garbage")
  :components ((:file "gpgme-package")
               (:cffi-grovel-file "gpgme-grovel"
                :depends-on ("gpgme-package")))
               (:file "gpgme"
                :depends-on ("gpgme-package" "gpgme-grovel"))))
```

-----BEGIN PGP PRIVATE KEY BLOCK-----

```
IQOYBFrsKEkBCADKw4Wt8J6M/88qD8PO6lSMCxH1cpwH8iK0uPaFFYsJkkXo7kWf
PTAtrV+REqF/o80dvYcdLvRsV21pvncZz/HXLU1yQ18mC3XObrKokbdgrTTKA5XE
BZkNsqyaMMJauT18H4hYkSg62/tTdO1cu/zWv/LFf7Xyn6+uA74ovXCJIO1s0N2c
PSht98QRzPMf2owgVvk37JnDNp4gGVDGHxSZOuUwxgYAZYnA8SFc+c+3ZrQfY870
+O4j3Mz4p7yD13AwP4buQLBsb/icxekeQCqRjLH9f7MdEcGXa1x36RcEkHdu+M
yJ392eMgD+dKNfRCtyTPhjZTxvbNELIBYICfABEBAAEAB/wLJ0gyMjs2ffft83wM
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W/evmCA+KVruKjRH/Fhrq4hHkEamW28+j4L6uAyagONP7BONs+S5Oo2zTT9+tV2R
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amd4yXKYEFKU1PWnvlGuicQSGdzVcwmq61msvXgYD0FK3LP3yWzKnE4X1tzc9Vp
/uHjxKjewCuyt1f5in919v+T8TbUxBYKC0zX/qWtX+10cTx77QQA6leqhToJ95Yc
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Wv/EU3QY/qA3G82mbXYeJ2jNZaTNYo4MylMrt4Mx25x4ke7JlsE8SVrQ+4CrHkqp
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4oDqLxolPSasz7WAMW1jN4qtWJ0mFzwo83V6kaBe+wF6Kqir6udFSBW9rPcFg6/V
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```

oEBhG/QPqZHg8VyoD1xYRAWGxyDjkX/GrSs6yE+x2hk5FoQCajxKa/d4AVxOnJpd  
whAfeXeSNaql5Ejgzax+Tdj9BV6vtGVJVv0pO7bgAiZxkA6RHxtNqhpPnPQoXvUz  
kzpRgpuL+Nj4yIg7z1ITH6KQH4u5SI9vd+j/8i9Taz67pdZwuJjac8qBuJHjzAo1  
bjYctFYUSG5pbmMQyNlySzgiNkFa4DajODlt3RuqVGP316Fk+Sy2+60tC/HIX8jg  
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oyRBet/0yH/zirBdQJw1ABEBAAEAB/4IN3gXOI4OuoOcsvHak4pebx61Mt0YP9cT  
qZASIBqxok5x8E28pFh/tYfkYdqRCtdNYZOnxcEoUWh5j6nfwZkEnJ9P/T8GPNk7  
pMKnKXmExi05b5uGHD8nU1rSbf/YkvAF0vpbx4/RDXbbtQhbUwGzusSI+pBLM0w  
5TreEB+vRGBc2gOvXXOtKLNEa7M9rH2EwbAkP3jOGGwgk6adxQdBCRxq4merqHL  
YrVz73bcJ8TDc0fsNjyIaZZJ++ejfBFYavsF1pvx9z7FNFf8rSXoiB3SBtaWGfhr  
bwNaMzrDc7TRIq/fgGaL6g//bzcWrr1YaHXZ10Bgx6UymDOIYkCpBADm0Hv46sPw  
07SO8+IACcaQliOto1pndOPwTimCeo58/7rf8I2a5uuJloGrnPwAX65bKDnUALp6  
X3lnXRNmhnB3Uewx4i00LQmjsxhJfQiGLpMv0j58tn64s7GqQzGVV1JKcQm992RV  
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xGfBqbO0wU2b5GMnZbY/06HENpidIzpa231VQaw5/nPTvfhLLKW1iGAkc148cX1q  
IL9w2ksXuaHR3LXud2VcfVTIIdxU/7h7u1dD/85+c0+7j1GOBD9cXKxIM6OjpIJ1  
l5/1h3C5S0TuxHkEAL/3BGihkhNfv1Xx0rWu0/732usX/nE/A9C26hGu41FUf3fp  
0ilonKpKZUEwWt5hWSEFCSrznNVekiO0rxvuu3RVegvzThPNU4Pf4JZtJpRVhvUQ  
d9ulxJw7V9rs75uNBatTNC0kXuGoXhehw4Bn93xa67gYGd3LfrH+oT0GCDpTSHCJ  
ATwEGAEIACYWIQTUFzW5Ejb9uIIEjFojAWNe7/DLBQUCWuwoSQIbDAUJA8JnAAAK  
CRAJAWNe7/DLBf0pCACPP5hBuUWngu2Hqvg+tNiuifsiYzId3MffFxEk3CbXeHcJ  
5F32NDJ9PYCnra4L8wSv+NZt9gIa8lFwoFSFQCjzH7KE86XcV3MhfdJTNb/+9CR7  
Jq3e/4Iy0N5ip7PNYMCyakcAsxvsNCJKrSaDuYe/OAoTXRBtgRWE2uyT315em02L  
kr+2Cc/Qk6H+vINOHGRgnpl/OZZjnUuUfBUvMGHr1phW+y7aeymC9PnUGdViRdJe  
23nntMSDA+0/I7ESO9JsWvJbyBmuiZpu9JjScOjYH9xpQLqRNyw4WHpZriN69F0t  
9Mmd7bM1+UyPgbPER0iWMeyctYsuOLEUyQKMscDT

=hkUm

-----END

PGP PRIVATE KEY BLOCK-----

#+TITLE: Stuff To Do

#+LATEX\_COMPILER: xelatex

#+LATEX\_CLASS: article

#+LATEX\_CLASS\_OPTIONS: [12pt]

#+LATEX\_HEADER: \usepackage{xltextra}

#+LATEX\_HEADER: \usepackage[margin=1in]{geometry}

#+LATEX\_HEADER: \setmainfont[Ligatures={Common}]{Latin Modern Roman}

\* Project Task List

:PROPERTIES:

:CUSTOM\_ID: task-list

:END:

\*\* DONE Documentation default format

CLOSED: [2018-02-15 Thu 21:29]

:PROPERTIES:

:CUSTOM\_ID: todo-docs-default

:END:

Decide on a default file format for documentation. The two main contenders being Org Mode, the default for the GnuPG Project and reStructuredText, the default for Python projects. A third option of DITA XML was considered due to a number of beneficial features it provides.

The decision was made to use Org Mode in order to fully integrate with the rest of the GPGME and GnuPG documentation. It is possible to produce reST versions via Pandoc and DITA XML can be reached through converting to either Markdown or XHTML first.

\*\* TODO Documentation build systems

```
:PROPERTIES:  
:CUSTOM_ID: todo-docs-build-systems  
:END:
```

Though Org Mode is being used for the default documentation format, it still needs to end up as usable by end users. So the Org Mode files are used to produce the "source" files used by the two main contenders for documenting the bindings: Texinfo and ReStructuredText/Docutils.

\*\*\* TODO Texinfo documentation

```
:PROPERTIES:  
:CUSTOM_ID: todo-docs-build-texinfo  
:END:
```

Need to add all of Texinfo's ... special systems to make it do its things.

\*\*\* TODO ReStructuredText documentation

```
:PROPERTIES:  
:CUSTOM_ID: todo-docs-build-docutils  
:END:
```

Need to run Sphinx's quick start, add it to the requirements and tweak the index page for the rst files to point to the HOWTO and other files.

It might just be easier to do all that in Org Mode and convert the lot, then the Sphinx bits can be automated.

\*\* STARTED Documentation HOWTO

```
:PROPERTIES:  
:CUSTOM_ID: todo-docs-howto
```

:END:

- State "STARTED" from "TODO" [2018-03-08 Thu 13:59] \\  
Started yesterday.  
Write a HOWTO style guide for the current Python bindings.

\*\*\* DONE Start python bindings HOWTO

CLOSED: [2018-03-07 Wed 18:14]

:PROPERTIES:

:CUSTOM\_ID: howto-start

:END:

\*\*\* STARTED Include certain specific instructions in the HOWTO

:PROPERTIES:

:CUSTOM\_ID: howto-requests

:END:

Note: moved the S/MIME bits out to their own section of the TODO list and may be served better by separate HOWTO documentation anyway.

- State "STARTED" from "TODO" [2018-03-09 Fri 15:27]  
Some functions can be worked out from the handful of examples available, but many more can't and I've already begun receiving requests for certain functions to be explained.

\*\*\*\* DONE Standard scenarios

CLOSED: [2018-03-19 Mon 12:34]

:PROPERTIES:

:CUSTOM\_ID: howto-the-basics

:END:

- State "DONE" from "STARTED"

[2018-03-19 Mon 12:34] \\

All four of those are done.

- State "STARTED" from "TODO" [2018-03-09 Fri 15:26] \\

Began with the example code, now to add the text.

What everyone expects: encryption, decryption, signing and verifying.

\*\*\*\* STARTED Key control

:PROPERTIES:

:CUSTOM\_ID: howto-key-control

:END:

- State "STARTED" from "TODO" [2018-03-19 Mon 12:35] \\

Generating keys and subkeys are done, but revocation is still to be done.  
Generating keys, adding subkeys, revoking subkeys (and keeping the cert key), adding and revoking UIDs, signing/certifying keys.

\*\*\*\* DONE More key control

CLOSED: [2018-03-19 Mon 12:36]

:PROPERTIES:

:CUSTOM\_ID: howto-key-selection

:END:

- State "DONE" from "TODO" [2018-03-19 Mon 12:36] \\

Key selection, searching, matching and counting is done.

Selecting keys to encrypt to or manipulate in other ways (e.g. as with key

control or the basics).

\*\* TODO Documentation SWIG

:PROPERTIES:

:CUSTOM\_ID: todo-docs-swig

:END:

Write documentation for the complete SWIG bindings demonstrating the correspondence with GPGME itself.

Note: it is likely that this will be more in the nature of something to be used in conjunction with the existing GPGME documentation which makes it easier for Python developers to use.

\*\* TODO GUI examples

:PROPERTIES:

:CUSTOM\_ID: todo-gui-examples

:END:

Create some examples of using Python bindings in a GUI application to either match or be similar to the old GTK2 examples available with PyME.

\*\* TODO Replace SWIG

:PROPERTIES:

:CUSTOM\_ID: todo-replace-swig

:END:

Selecting SWIG for this project in 2002 was understandable and effectively the only viable option. The options available now,

however, are significantly improved and some of those would resolve a number of existing problems with using SWIG, particularly when running code on both POSIX compliant and Windows platforms.

The long term goal is to replace SWIG by reimplementing the Python bindings using a more suitable means of interfacing with the GPGME C source code.

#### \*\*\* TODO Replacement for SWIG

```
:PROPERTIES:  
:CUSTOM_ID: todo-replace-swig-replacement  
:END:
```

Decide on a replacement for SWIG. Currently CFFI is looking like the most viable candidate, but some additional testing and checks are yet to be completed.

#### \*\* TODO API for an API

```
:PROPERTIES:  
:CUSTOM_ID: todo-api-squared  
:END:
```

A C API like GPGME is not what most modern developers think of when they hear the term API. Normally they think of something they can interact with like a RESTful web API. Though RESTful is unlikely given the nature of GPGME and the process of encryption, it may be possible to provide a more familiar interface which can be utilised by developers of other languages for which bindings are not available or for which it is too difficult to create proper bindings.

#### \*\* TODO S/MIME

```
:PROPERTIES:  
:CUSTOM_ID: s-mime  
:END:
```

Eventually add some of this, but the OpenPGP details are far more important at the moment.

#### \* Project Task Details

```
:PROPERTIES:  
:CUSTOM_ID: detailed-tasks  
:END:
```

\*\* Working examples

```
:PROPERTIES:  
:CUSTOM_ID: working-examples  
:END:
```

The old GUI examples were unable to be retained since they depended on GTK2 and Python 2's integration with GTK2.

Current GPGME examples so far only include command line tools or basic Python code for use with either Python 2.7 or Python 3.4 and above.

Future GUI examples ought to utilise available GUI modules and libraries supported by Python 3. This may include Qt frameworks, Tkinter, GTK3 or something else entirely.

\*\* Documentation

```
:PROPERTIES:  
:CUSTOM_ID: documentation  
:END:
```

The legacy documentation which no longer applies to the Python bindings has been removed.

Current and future documentation will adhere to the GnuPG standard of using Org Mode and not use the reStructuredText (reST) format more commonly associated with Python documentation. The reasons for this are that this project is best served as shipping with the rest of GPGME and the documentation ought to match that. There are also aspects of Org Mode's publishing features which are superior to the defaults of reST, including the capacity to generate fully validating strict XHTML output.

If reST files are required at a later point for future inclusion with other Python packages, then that format can be generated from the .org files with Pandoc before being leveraged by either Docutils, Sphinx or something else.

While there are some advanced typesetting features of reST which are not directly available to Org Mode, more often than not those features are best implemented with either HTML and CSS, with LaTeX to produce a PDF or via a number of XML solutions. Both reST and Org Mode have multiple paths by which to achieve all of these.

```
from __future__ import absolute_import
```

```

import cython
import gpg

c = gpg.Context()
seckey = c.keylist(pattern=None, secret=True)
pubkey = c.keylist(pattern=None, secret=False)

seclist = list(seckey)
secnum = len(seclist)

publist = list(pubkey)
pubnum = len(publist)

if cython.compiled is True:
    cc = "Powered by Cython compiled C code."
else:
    cc = "Powered by Python."

print("""
    Number of secret keys: {0}
    Number of public keys: {1}

    {2}
    """.format(secnum, pubnum, cc))
\input texinfo @c -*- texinfo -*-
@c %**start of header
@setfilename maintenance-mode.info
@settitle Maintenance Mode
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@finalout
@titlepage
@title Maintenance Mode
@author Ben McGinnes
@end titlepage

@contents

@ifnottex
@node Top
@top Maintenance Mode
@end ifnottex

@menu
* Maintenance Mode from 2019::

```



@detailmenu

--- The Detailed Node Listing ---

Maintenance Mode from 2019

- \* Maintainer from 2019 onward::
- \* Using the Python Bindings from 2019 and beyond::
- \* Documentation formats::

Documentation formats

- \* Cautionary Notes regarding Sphinx and EPUB::

@end detailmenu

@end menu

@node Maintenance Mode from 2019

@chapter Maintenance Mode from 2019

@multitable {aaaaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}

@item Version:

@tab 0.0.1

@item GPGME Version:

@tab 1.13.0

@item Author:

@tab Ben McGinnes <ben@gnupg.org>

@item Author GPG Key:

@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D

@item Language:

@tab Australian

English, British English

@item xml:lang:

@tab en-AU, en-GB, en

@end multitable

From the beginning of 2019 the Python bindings to GPGME will enter maintenance mode, meaning that new features will not be added and only bug fixes and security fixes will be made. This also means that documentation beyond that existing at the end of 2018 will not be developed further except to correct errors.

Though use of these bindings appears to have been quite well received, there has been no indication of what demand there is, if any for either financial backing of the current Python bindings development or support contracts with g10code GmbH citing the necessity of including the bindings.

@menu

- \* Maintainer from 2019 onward::
- \* Using the Python Bindings from 2019 and beyond::
- \* Documentation formats::

@end menu

@node Maintainer from 2019 onward  
@section Maintainer from 2019 onward

How does this affect the position of GnuPG Python Bindings Maintainer?

Well, I will remain as maintainer of the bindings; but without funding for that position, the amount of time I will be able to dedicate solely to this task will be limited and reduced to volunteered time. As with all volunteered time and effort in free software projects, this will be subject to numerous external imperatives.

@node Using the Python Bindings from 2019 and beyond  
@section Using the Python Bindings from 2019 and beyond

For most, if not all, Python developers using these bindings; they will continue to just work the same as they always have. Expansions of GPGME itself are usually handled by SWIG with the existing code and thus bindings are generated properly when the bindings are installed alongside GPGME and when the latter is built from source.

In the rare circumstances where that is not enough to address some new addition to GPGME, then that is a bug and thus subject to the maintenance mode provisions (i.e. it will be fixed following a bug report being raised and your humble author will need to remember where the timesheet template was filed, depending on how many years off such an event is).

All the GPGME functionality will continue to be accessible via the lower level, dynamically generated methods which match the GPGME C documentation. While the more intuitively Pythonic higher level layer already covers the vast majority of functionality people require with key generation, signatures, certifications (key signing), encryption, decryption, verification, validation, trust levels and so on.

Any wanted features lacking in the Python bindings are usually lacking because they are missing from GPGME itself (e.g. revoking keys via the API) and in such cases they are usually deliberately excluded. More discussion of these issues can be found in the archives of the [@uref{https://lists.gnupg.org/mailman/listinfo/gnupg-devel, gnupg-devel mailing list}](https://lists.gnupg.org/mailman/listinfo/gnupg-devel).

Any features existing in the dynamically generated layer for which

people want a specific, higher level function included to make it more Pythonic

(e.g. to avoid needing to learn or memorise cryptographic mode values or GnuPG status code numbers), would be a feature request and **not** a bug.

It is still worthwhile requesting it, but the addition of such a feature would not be guaranteed and provided on a purely volunteer basis. Expediting such a request would require funding that request.

Those with a commercial interest in expediting such a feature request already know how to <https://gnupg.org/cgi-bin/procdonate.cgi?mode=preset>, expedite it} (use the message field to state what feature is being requested).

**Documentation formats**

**Documentation formats**

The documentation has been written in Org mode for GNU Emacs, with both Texinfo and reStructuredText formats generated from that. The Texinfo files are intended for use with the rest of the GnuPG documentation; while the reStructuredText files are intended for use with Docutils and Sphinx, as with other Python projects.

**Cautionary Notes**

\* Cautionary Notes regarding Sphinx and EPUB::

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Though Python's Docutils in conjunction with Sphinx is capable of generating some very useful HTML sites, as proven by <https://readthedocs.org/>, Read the Docs} and the <https://docs.python.org/>, Python documentation}, there are a number of output formats it does not handle well. At the top of the list of things it manages to break so atrociously as to be embarrassing is the <http://idpf.org/epub/>, EPUB 3} format.

The automatically generated EPUB of the CPython documentation always contains hundreds of validation errors and even the modest amount of documentation here <https://files.au.adversary.org.s3.amazonaws.com/crypto/gpgme-python/rst/epub/GPGMEPythonBindings.epub>, produced a file} with approximately thirty validation errors. As the volume of documentation content increases, so does the induced errors. Whereas Texinfo doesn't produce EPUB output at all, nor does Org-mode.

Should there ever be genuine demand for this format, lodge a

@uref{https://dev.gnupg.org/maniphest/task/edit/form/4/, feature request} case marked for @uref{https://dev.gnupg.org/p/BenM/, my} attention. The means of generating such files flawlessly is already available, but is not yet part of the GnuPG build system. Nor is it integrated with a means of converting Org mode input files to the relevant base format automatically, as can already be done when converting Org to reStructuredText or Org to Texinfo. As a certain amount of work would be required to get it done, there would need to be clear demand for that work to be done.

@bye

-----BEGIN PGP PUBLIC KEY BLOCK-----

```
mQENBFsMHecBCACqdJgqa+CeNYwPCK+MpOwAV6uFVjDyO2LmOs6+XfDWRBU/Zjtz
8zdYnKsBljkWN4ujV5aiyA7MtEofszzYLEoKUtlwiDScHMpW8qmEFDv19g26MeAV
rTno9D5KodHvEIs8wnrqBs8ix0WLbh6J1Dtt8HQglbN+v3gaRQrgBFe6z2ZYpHHx
ZfOu3iFKlm2WE/NekRkvvFIo3ApGvRhGIYw6JMmugBlo7s5xosJK0I9dkPGIEEtt
aF1RkcMj8sWG9vHAXcjlGgFfXSN9YLppydXpkuZGm4+gjLB2a3rbQCZVFnxCyG4O
ybjkP8Jw6Udm89bK2ucYFfjdrnYn/nJqRxeNABEBAAG0I1Rlc3QgTm9Qcm12S2V5
IDxub2JvZHIAZXhhbXBsZS5vcmc+iQFOBBMBCAA4FiEE4Fmh4IZtMa4TEXCITZou
EzBBU9EFAlsMHecCGwMFCwkIBwIGFQoJCAAsCBBYCAwECHgECF4AACgkQTZouEzBB
U9F+qwf/SHj4uRnTWgyJ71FBxQDYCBq3jbi6e7hMkRPbJyJdnPIMAb2p0PJjBgjW
0pp4+kDPZans3UDHbma1u/SFI4/y6isJiK94Bk5xp5YliLGnUceTjgDFe6lBhfQ1
zVWZC/NF3tPgbzIxXQTNt34nS+9dbV/QFDLW0POcN7C0jR/hgkBjMEH2PezWhSj
mL/yLflUYAoxVpXjfC5aPJKqw0tR7m5ibznjCphE+FUMRg8EOmJcg6soeJ5QspU
k2dPN3+Y0zCTNRgAHEI+yIQbM6pio6v2c+UCtT1QhW4xSI38/kcEG8QiM55r1TUy
FcWAY5n5t1nNzTmxxse3LqEon3rKiLkBDQRbDB3nAQgAqfAjSjengERTM+ZYOWn0
QF2v2FuEuMe8mhju7Met7SN2zGv1LnhTNshEa9IABEfjZirE2Tqx4xCWDwDedK4
u1ToFvcnuAMnq2O47Sh+eTypsf6WPFtPBWf6ctKY31hFXjgoyDBULBv143XU/D9C
Mt7nsKDPYHVrrnge/qWPYVcb+cO0sSwNImMcwQSdTQ3VBq7MeNS9ZeBcXi+XCjhN
kjNum2AQqpkHHDQV7871yQ8RIILvZSSfkLb0/SNDU+bGaw2G3lcyKdIfZi2EWWZT
oCbH38I+LV7nAEe4zFpHwW8X0Dkx2aLgxe6UzDH9L3eGhTLpJhOSiaanG+zZKm
+QARAQABiQE2BBgBCAAgFiEE4Fmh4IZtMa4TEXCITZouEzBBU9EFAlsMHecCGwwA
CgkQTZouEzBBU9H5TQgAolWvIsez/WW8N2tmZENX0LOFNb+1S4L4X983njwNdoVI
w19pbj+8RIHF/H9kcPGi7jK96gvlykQn3uez/95D2AiRFW5KYdOouFisKgHpv8Ay
BrhclHv11yK+X/OiT0DscYaG7np5162xLkaxSO9hsz2fgv20RKaXCWkI69fWw0BR
XII5pZh2YFei2ZhH/tIMIw65h3w0gtgaZBBdpZTOOW4zvghyN+0MSObqkI1BvUJU
caDFI4d6ZTmp5SY+pZyktZ4bg/vMH5VfxdIKgbLx9uVeTvOupvbAW0TNulYGUBQE
nm+S0zr3W18t64e4sS3oHse8zCqo1iiImpba6F1Oaw==
```

=y6DD

-----END

PGP PUBLIC KEY BLOCK-----

00~0

\*H

0k10 UDE10U

Dsseldorf10U

g10 Code GmbH10UAegypten Project10Utest cert 10

011203093638Z

021203093638Z0k10 UDE10U

Dsseldorf10U

g10 Code GmbH10UAegypten Project10Utest cert 100

\*H

0l+Pu.\-ZT\$e'nE&h4<}BePm[%j-/-7PcHKi@FKy~npcd\${]K~Q00U37Tq8\_eK40U#037Tq8\_eK4om0k10 UDE10U

Dsseldorf10U

g10 Code GmbH10UAegypten Project10Utest cert 10U00

\*H

l8gD Z

wYL,M'j

pk2pf[L ;Rl}#h\$~O!9;3e\A'v&P^\$'Oc.-TS~A>:fQY<

;;; gpgme.lisp

;;; Copyright (C) 2006 g10 Code GmbH

;;;

;;; This file is part of GPGME-CL.

;;;

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;;; (at your option) any later version.

;;;

;;; GPGME-CL is distributed in the hope that it will be useful, but

;;; WITHOUT ANY WARRANTY; without even the implied warranty of

;;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU

;;; Lesser General Public License for more details.

;;;

;;; You should have received a copy of the GNU General Public License

;;; along with GPGME; if not, write to the Free Software Foundation,

;;; Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

;;; TODO

;;; Set up the library.

(in-package :gpgme)

(deftype byte-array ()

'(simple-array (unsigned-byte 8) (\*)))

(deftype character-array ()

'(simple-array character (\*)))

;;;

Debugging.

```
(defvar *debug* nil "If debugging output should be given or not.")
```

```
;;; Load the foreign library.
```

```
(define-foreign-library libgpgme  
  (:unix "libgpgme.so")  
  (t (:default "libgpgme")))
```

```
(use-foreign-library libgpgme)
```

```
;;; System dependencies.
```

```
; Access to ERRNO.
```

```
(defcfun ("strerror" c-strerror) :string  
  (err :int))
```

```
(defun get-errno ()  
  *errno*)
```

```
(defun set-errno (errno)  
  (setf *errno* errno))
```

```
(define-condition system-error (error)  
  ((errno :initarg :errno :reader system-error-errno))  
  (:report (lambda (c stream)  
    (format stream "System error: ~A: ~A"  
      (system-error-errno c)  
      (c-strerror (system-error-errno c))))))  
  (:documentation "Signalled when an errno is encountered."))
```

```
; Needed to write passphrases.
```

```
(defcfun ("write" c-write) ssize-t  
  (fd :int)  
  (buffer :string) ; Actually :pointer, but we only need string.  
  (size size-t))
```

```
(defun system-write (fd buffer size)  
  (let ((res (c-write fd buffer size)))  
    (when (< res 0) (error 'system-error  
      :errno (get-errno))  
      res))
```

```
;;;
```

```
;;; C Interface Definitions
```

```
;;;
```

```
;;; Data Type Interface
```

::: Some new data types used for easier translation.

::: The number of include certs. Translates to NIL for default.

```
(defctype cert-int-t
  (:wrapper :int
   :from-c translate-cert-int-t-from-foreign
   :to-c translate-cert-int-t-to-foreign))
```

::: A string that may be NIL to indicate a null pointer.

```
(defctype string-or-nil-t
  (:wrapper :string
   :to-c translate-string-or-nil-t-to-foreign))
```

::: Some opaque data types used by GPGME.

```
(defctype gpgme-ctx-t
  (:wrapper :pointer
   :to-c translate-gpgme-ctx-t-to-foreign)
  "The GPGME context type.")
```

```
(defctype gpgme-data-t
  (:wrapper :pointer
   :to-c translate-gpgme-data-t-to-foreign)
  "The GPGME data object type.")
```

::: Wrappers for the libgpg-error library.

```
(defctype gpgme-error-t
  (:wrapper gpg-error::gpg-error-t
   :from-c translate-gpgme-error-t-from-foreign
   :to-c translate-gpgme-error-t-to-foreign)
  "The
  GPGME error type.")
```

```
(defctype gpgme-error-no-signal-t
  (:wrapper gpg-error::gpg-error-t
   :from-c translate-gpgme-error-no-signal-t-from-foreign)
  "The GPGME error type (this version does not signal conditions in translation).")
```

```
(defctype gpgme-err-code-t gpg-error::gpg-err-code-t
  "The GPGME error code type.")
```

```
(defctype gpgme-err-source-t gpg-error::gpg-err-source-t
  "The GPGME error source type.")
```

```
(defun gpgme-err-make (source code)
  "Construct an error value from an error code and source."
  (gpg-err-make source code))
```

```

(defun gpgme-error (code)
  "Construct an error value from an error code."
  (gpgme-err-make :gpg-err-source-gpgme code))

(defun gpgme-err-code (err)
  "Retrieve an error code from the error value ERR."
  (gpg-err-code err))

(defun gpgme-err-source (err)
  "Retrieve an error source from the error value ERR."
  (gpg-err-source err))

(defun gpgme-strerror (err)
  "Return a string containing a description of the error code."
  (gpg-strerror err))

(defun
  gpgme-strsource (err)
  "Return a string containing a description of the error source."
  (gpg-strsource err))

(defun gpgme-err-code-from-errno (err)
  "Retrieve the error code for the system error. If the system error
  is not mapped, :gpg-err-unknown-errno is returned."
  (gpg-err-code-from-errno err))

(defun gpgme-err-code-to-errno (code)
  "Retrieve the system error for the error code. If this is not a
  system error, 0 is returned."
  (gpg-err-code-to-errno code))

(defun gpgme-err-make-from-errno (source err)
  (gpg-err-make-from-errno source err))

(defun gpgme-error-from-errno (err)
  (gpg-error-from-errno err))

;;;

(defcenum gpgme-data-encoding-t
  "The possible encoding mode of gpgme-data-t objects."
  (:none 0)
  (:binary 1)
  (:base64 2)
  (:armor 3)
  (:url 4)
  (:urlesc 5))

```



(:url0 6)  
(:mime 7))

;;;

(defcenum gpgme-pubkey-algo-t  
"Public key algorithms from libgcrypt."

(:rsa 1)  
(:rsa-e 2)  
(:rsa-s 3)  
(:elg-e 16)  
(:dsa 17)  
(:ecc 18)  
(:elg 20)  
(:ecdsa 301)  
(:ecdh 302)  
(:eddsa 303))

(defcenum gpgme-hash-algo-t  
"Hash algorithms from libgcrypt."

(:none 0)  
(:md5 1)  
(:sha1 2)  
(:rmd160 3)  
(:md2 5)  
(:tiger 6)  
(:haval 7)  
(:sha256 8)  
(:sha384 9)  
(:sha512 10)  
(:sha224 11)  
(:md4 301)  
(:crc32 302)  
(:crc32-rfc1510 303)  
(:crc24-rfc2440 304))

;;;

(defcenum gpgme-sig-mode-t  
"The available signature modes."

(:none 0)  
(:detach 1)  
(:clear 2))

;;;

(defcenum gpgme-validity-t  
"The available validities for a trust item or key."

```
(:unknown 0)
(:undefined 1)
(:never 2)
(:marginal 3)
(:full 4)
(:ultimate 5))
```

```
:::
```

```
(defcenum gpgme-protocol-t
```

```
"The available protocols."
```

```
(:openpgp 0)
(:cms 1)
(:gpgconf 2)
(:assuan 3)
(:g13 4)
(:uiserver 5)
(:spawn 6)
(:default 254)
(:unknown 255))
```

```
:::
```

```
(defbitfield (gpgme-keylist-mode-t :unsigned-int)
```

```
"The available keylist mode flags."
```

```
(:local 1)
(:extern 2)
(:sigs 4)
(:sig-notations)
(:with-secret 16)
(:with-tofu 32)
(:ephemeral
128)
(:validate 256))
```

```
:::
```

```
(defbitfield (gpgme-sig-notation-flags-t :unsigned-int)
```

```
"The available signature notation flags."
```

```
(:human-readable 1)
(:critical 2))
```

```
(defctype gpgme-sig-notation-t
```

```
(:wrapper :pointer
:from-c translate-gpgme-sig-notation-t-from-foreign)
"Signature notation pointer type.")
```

```
::: FIXME: Doesn't this depend on endianness?
```

```
(defbitfield (gpgme-sig-notation-bitfield :unsigned-int)
(:human-readable 1)
(:critical 2))
```

```
(defcstruct gpgme-sig-notation
"Signature notations."
(next gpgme-sig-notation-t)
(name :pointer)
(value :pointer)
(name-len :int)
(value-len :int)
(flags gpgme-sig-notation-flags-t)
(bitfield gpgme-sig-notation-bitfield))
```

```
;;;
```

```
(defcenum gpgme-status-code-t
"The possible status codes for the edit operation."
(:eof 0)
(:enter 1)
(:leave 2)
(:abort 3)
(:goodsig 4)
(:badsig 5)
(:errsig 6)
(:badarmor 7)
(:rsa-or-idea 8)
(:keyexpired 9)
(:keyrevoked 10)
(:trust-undefined 11)
(:trust-never
12)
(:trust-marginal 13)
(:trust-fully 14)
(:trust-ultimate 15)
(:shm-info 16)
(:shm-get 17)
(:shm-get-bool 18)
(:shm-get-hidden 19)
(:need-passphrase 20)
(:validsig 21)
(:sig-id 22)
(:enc-to 23)
(:nodata 24)
(:bad-passphrase 25)
(:no-pubkey 26)
(:no-seckey 27)
(:need-passphrase-sym 28)
```

(:decryption-failed 29)  
(:decryption-okay 30)  
(:missing-passphrase 31)  
(:good-passphrase 32)  
(:goodmdc 33)  
(:badmdc 34)  
(:errmdc 35)  
(:imported 36)  
(:import-ok 37)  
(:import-problem 38)  
(:import-res 39)  
(:file-start 40)  
(:file-done 41)  
(:file-error 42)  
(:begin-decryption 43)  
(:end-decryption 44)  
(:begin-encryption 45)  
(:end-encryption 46)  
(:delete-problem 47)  
(:get-bool 48)  
(:get-line 49)  
(:get-hidden 50)  
(:got-it 51)  
(:progress 52)  
(:sig-created 53)  
(:session-key 54)  
(:notation-name 55)  
(:notation-data 56)  
(:policy-url 57)  
(:begin-stream 58)  
(:end-stream 59)  
(:key-created 60)  
(:userid-hint 61)  
(:unexpected  
62)  
(:inv-recp 63)  
(:no-recp 64)  
(:already-signed 65)  
(:sigexpired 66)  
(:expsig 67)  
(:expkeysig 68)  
(:truncated 69)  
(:error 70)  
(:newsig 71)  
(:revkeysig 72)  
(:sig-subpacket 73)  
(:need-passphrase-pin 74)  
(:sc-op-failure 75)

```
(:sc-op-success 76)
(:cardctrl 77)
(:backup-key-created 78)
(:pka-trust-bad 79)
(:pka-trust-good 80)
(:plaintext 81)
(:inv-sgnr 82)
(:no-sgnr 83)
(:success 84)
(:decryption-info 85)
(:plaintext-length 86)
(:mountpoint 87)
(:pinentry-launched 88)
(:attribute 89)
(:begin-signing 90)
(:key-not-created 91)
(:inquire-maxlen 92)
(:failure 93)
(:key-considered 94)
(:tofu-user 95)
(:tofu-stats 96)
(:tofu-stats-long 97)
(:notation-flags 98)
(:decryption-compliance-mode 99)
(:verification-compliance-mode 100))
```

```
;;;
```

```
(defctype gpgme-engine-info-t
  (:wrapper :pointer
   :from-c translate-gpgme-engine-info-t-to-foreign)
  "The engine information structure pointer type.")
```

```
(defcstruct gpgme-engine-info
  "Engine information."
  (next gpgme-engine-info-t)
  (protocol gpgme-protocol-t)
  (file-name :string)
  (version :string)
  (req-version :string)
  (home-dir :string))
```

```
;;;
```

```
(defctype gpgme-subkey-t
  (:wrapper :pointer
   :from-c translate-gpgme-subkey-t-from-foreign)
  "A subkey from a key.")
```

```
:: FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-subkey-bitfield :unsigned-int)
  "The subkey bitfield."
  (:revoked 1)
  (:expired 2)
  (:disabled 4)
  (:invalid 8)
  (:can-encrypt 16)
  (:can-sign 32)
  (:can-certify 64)
  (:secret 128)
  (:can-authenticate 256)
  (:is-qualified 512)
  (:is-cardkey 1024)
  (:is-de-vs 2048))
```

```
(defcstruct gpgme-subkey
  "Subkey from a key."
  (next gpgme-subkey-t)
  (bitfield gpgme-subkey-bitfield)
  (pubkey-algo gpgme-pubkey-algo-t)
  (length :unsigned-int)
  (keyid :string)
  (-keyid :char :count 17)
  (fpr :string)
  (timestamp :long)
  (expires :long))
```

```
(defctype gpgme-key-sig-t
  (:wrapper :pointer
   :from-c translate-gpgme-key-sig-t-from-foreign)
  "A signature on a user ID.")
```

```
:: FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-key-sig-bitfield :unsigned-int)
  "The key signature bitfield."
  (:revoked 1)
  (:expired 2)
  (:invalid 4)
  (:exportable 16))
```

```
(defcstruct gpgme-key-sig
  "A signature on a user ID."
  (next gpgme-key-sig-t)
  (bitfield gpgme-key-sig-bitfield)
  (pubkey-algo gpgme-pubkey-algo-t))
```

```

(keyid :string)
(-keyid :char :count 17)
(timestamp :long)
(expires :long)
(status gpgme-error-no-signal-t)
(-class :unsigned-int)
(uid :string)
(name :string)
(email :string)
(comment :string)
(sig-class :unsigned-int))

(defctype gpgme-user-id-t
  (:wrapper :pointer
   :from-c translate-gpgme-user-id-t-from-foreign)
  "A user ID from a key.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-user-id-bitfield :unsigned-int)
  "The user ID bitfield."
  (:revoked 1)
  (:invalid 2))

(defcstruct gpgme-user-id
  "A user ID from a key."
  (next
   gpgme-user-id-t)
  (bitfield gpgme-user-id-bitfield)
  (validity gpgme-validity-t)
  (uid :string)
  (name :string)
  (email :string)
  (comment :string)
  (signatures gpgme-key-sig-t)
  (-last-keysig gpgme-key-sig-t))

(defctype gpgme-key-t
  (:wrapper :pointer
   :from-c translate-gpgme-key-t-from-foreign
   :to-c translate-gpgme-key-t-to-foreign)
  "A key from the keyring.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-key-bitfield :unsigned-int)
  "The key bitfield."
  (:revoked 1)

```

```
(:expired 2)
(:disabled 4)
(:invalid 8)
(:can-encrypt 16)
(:can-sign 32)
(:can-certify 64)
(:secret 128)
(:can-authenticate 256)
(:is-qualified 512))
```

```
(defcstruct gpgme-key
  "A signature on a user ID."
  (-refs :unsigned-int)
  (bitfield gpgme-key-bitfield)
  (protocol gpgme-protocol-t)
  (issuer-serial :string)
  (issuer-name :string)
  (chain-id :string)
  (owner-trust gpgme-validity-t)
  (subkeys gpgme-subkey-t)
  (uids gpgme-user-id-t)
  (-last-subkey gpgme-subkey-t)
  (-last-uid gpgme-user-id-t)
  (keylist-mode gpgme-keylist-mode-t))
```

```
:::
```

```
::: There is no support in CFFI to define callback C types and have
::: automatic type checking with the callback definition.
```

```
(defctype gpgme-passphrase-cb-t :pointer)
```

```
(defctype gpgme-progress-cb-t :pointer)
```

```
(defctype gpgme-edit-cb-t :pointer)
```

```
:::
```

```
::: Function Interface
```

```
:::
```

```
::: Context management functions.
```

```
(defcfun ("gpgme_new" c-gpgme-new) gpgme-error-t
  (ctx :pointer))
```

```
(defcfun ("gpgme_release" c-gpgme-release) :void
  (ctx gpgme-ctx-t))
```



```

(defcfun ("gpgme_set_protocol" c-gpgme-set-protocol) gpgme-error-t
  (ctx gpgme-ctx-t)
  (proto gpgme-protocol-t))

(defcfun ("gpgme_get_protocol" c-gpgme-get-protocol) gpgme-protocol-t
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_get_protocol_name" c-gpgme-get-protocol-name) :string
  (proto gpgme-protocol-t))

(defcfun ("gpgme_set_armor" c-gpgme-set-armor) :void
  (ctx gpgme-ctx-t)
  (yes :boolean))

(defcfun ("gpgme_get_armor" c-gpgme-get-armor) :boolean
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_set_textmode" c-gpgme-set-textmode) :void
  (ctx gpgme-ctx-t)
  (yes :boolean))

(defcfun ("gpgme_get_textmode" c-gpgme-get-textmode) :boolean
  (ctx gpgme-ctx-t))

(defconstant +include-certs-default+ -256)

(defcfun ("gpgme_set_include_certs" c-gpgme-set-include-certs) :void
  (ctx gpgme-ctx-t)
  (nr-of-certs cert-int-t))

(defcfun ("gpgme_get_include_certs" c-gpgme-get-include-certs) cert-int-t
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_set_keylist_mode" c-gpgme-set-keylist-mode) gpgme-error-t
  (ctx gpgme-ctx-t)
  (mode gpgme-keylist-mode-t))

(defcfun ("gpgme_get_keylist_mode" c-gpgme-get-keylist-mode)
  gpgme-keylist-mode-t
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_set_passphrase_cb" c-gpgme-set-passphrase-cb) :void
  (ctx gpgme-ctx-t)
  (cb gpgme-passphrase-cb-t)
  (hook-value :pointer))

(defcfun ("gpgme_get_passphrase_cb" c-gpgme-get-passphrase-cb) :void

```

```

(ctx gpgme-ctx-t)
(cb-p :pointer)
(hook-value-p :pointer))

(defcfun ("gpgme_set_progress_cb"
c-gpgme-set-progress-cb) :void
(ctx gpgme-ctx-t)
(cb gpgme-progress-cb-t)
(hook-value :pointer))

(defcfun ("gpgme_get_progress_cb" c-gpgme-get-progress-cb) :void
(ctx gpgme-ctx-t)
(cb-p :pointer)
(hook-value-p :pointer))

(defcfun ("gpgme_set_locale" c-gpgme-set-locale) gpgme-error-t
(ctx gpgme-ctx-t)
(category :int)
(value string-or-nil-t))

(defcfun ("gpgme_ctx_get_engine_info" c-gpgme-ctx-get-engine-info)
gpgme-engine-info-t
(ctx gpgme-ctx-t))

(defcfun ("gpgme_ctx_set_engine_info" c-gpgme-ctx-set-engine-info)
gpgme-error-t
(ctx gpgme-ctx-t)
(proto gpgme-protocol-t)
(file-name string-or-nil-t)
(home-dir string-or-nil-t))

;;;

(defcfun ("gpgme_pubkey_algo_name" c-gpgme-pubkey-algo-name) :string
(algo gpgme-pubkey-algo-t))

(defcfun ("gpgme_hash_algo_name" c-gpgme-hash-algo-name) :string
(algo gpgme-hash-algo-t))

;;;

(defcfun ("gpgme_signers_clear" c-gpgme-signers-clear) :void
(ctx gpgme-ctx-t))

(defcfun ("gpgme_signers_add" c-gpgme-signers-add)
gpgme-error-t
(ctx gpgme-ctx-t)
(key gpgme-key-t))

```

```

(defcfun ("gpgme_signers_enum" c-gpgme-signers-enum) gpgme-key-t
  (ctx gpgme-ctx-t)
  (seq :int))

;;;

(defcfun ("gpgme_sig_notation_clear" c-gpgme-sig-notation-clear) :void
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_sig_notation_add" c-gpgme-sig-notation-add) gpgme-error-t
  (ctx gpgme-ctx-t)
  (name :string)
  (value string-or-nil-t)
  (flags gpgme-sig-notation-flags-t))

(defcfun ("gpgme_sig_notation_get" c-gpgme-sig-notation-get)
  gpgme-sig-notation-t
  (ctx gpgme-ctx-t))

;;; Run Control.

;;; There is no support in CFFI to define callback C types and have
;;; automatic type checking with the callback definition.

(defctype gpgme-io-cb-t :pointer)

(defctype gpgme-register-io-cb-t :pointer)

(defctype gpgme-remove-io-cb-t :pointer)

(defcenum gpgme-event-io-t
  "The possible events on I/O event callbacks."
  (:start 0)
  (:done 1)
  (:next-key 2)
  (:next-trustitem 3))

(defctype gpgme-event-io-cb-t :pointer)

(defcstruct
  gpgme-io-cbs
  "I/O callbacks."
  (add gpgme-register-io-cb-t)
  (add-priv :pointer)
  (remove gpgme-remove-io-cb-t)
  (event gpgme-event-io-cb-t)
  (event-priv :pointer))

```

```

(defctype gpgme-io-cbs-t :pointer)

(defcfun ("gpgme_set_io_cbs" c-gpgme-set-io-cbs) :void
  (ctx gpgme-ctx-t)
  (io-cbs gpgme-io-cbs-t))

(defcfun ("gpgme_get_io_cbs" c-gpgme-get-io-cbs) :void
  (ctx gpgme-ctx-t)
  (io-cbs gpgme-io-cbs-t))

(defcfun ("gpgme_wait" c-gpgme-wait) gpgme-ctx-t
  (ctx gpgme-ctx-t)
  (status-p :pointer)
  (hang :int))

```

;;; Functions to handle data objects.

;;; There is no support in CFFI to define callback C types and have  
 ;;; automatic type checking with the callback definition.

```

(defctype gpgme-data-read-cb-t :pointer)
(defctype gpgme-data-write-cb-t :pointer)
(defctype gpgme-data-seek-cb-t :pointer)
(defctype gpgme-data-release-cb-t :pointer)

(defcstruct gpgme-data-cbs
  "Data callbacks."
  (read gpgme-data-read-cb-t)
  (write gpgme-data-write-cb-t)
  (seek gpgme-data-seek-cb-t)
  (release gpgme-data-release-cb-t))

(defctype gpgme-data-cbs-t :pointer
  "Data callbacks pointer.")

(defcfun ("gpgme_data_read" c-gpgme-data-read) ssize-t
  (dh gpgme-data-t)
  (buffer :pointer)
  (size size-t))

(defcfun ("gpgme_data_write" c-gpgme-data-write) ssize-t
  (dh gpgme-data-t)
  (buffer :pointer)
  (size size-t))

(defcfun ("gpgme_data_seek" c-gpgme-data-seek) off-t
  (dh gpgme-data-t)

```

```

(offset off-t)
(whence :int))

(defcfun ("gpgme_data_new" c-gpgme-data-new) gpgme-error-t
  (dh-p :pointer))

(defcfun ("gpgme_data_release" c-gpgme-data-release) :void
  (dh gpgme-data-t))

(defcfun ("gpgme_data_new_from_mem" c-gpgme-data-new-from-mem) gpgme-error-t
  (dh-p :pointer)
  (buffer :pointer)
  (size size-t)
  (copy :int))

(defcfun ("gpgme_data_release_and_get_mem" c-gpgme-data-release-and-get-mem)
  :pointer
  (dh gpgme-data-t)
  (len-p :pointer))

(defcfun ("gpgme_data_new_from_cbs" c-gpgme-data-new-from-cbs) gpgme-error-t
  (dh-p :pointer)
  (cbs gpgme-data-cbs-t)
  (handle :pointer))

(defcfun ("gpgme_data_new_from_fd" c-gpgme-data-new-from-fd) gpgme-error-t
  (dh-p :pointer)
  (fd :int))

(defcfun ("gpgme_data_new_from_stream" c-gpgme-data-new-from-stream)
  gpgme-error-t
  (dh-p :pointer)
  (stream :pointer))

(defcfun ("gpgme_data_get_encoding" c-gpgme-data-get-encoding)
  gpgme-data-encoding-t
  (dh gpgme-data-t))

(defcfun ("gpgme_data_set_encoding" c-gpgme-data-set-encoding)
  gpgme-error-t
  (dh gpgme-data-t)
  (enc gpgme-data-encoding-t))

(defcfun ("gpgme_data_get_file_name" c-gpgme-data-get-file-name) :string
  (dh gpgme-data-t))

(defcfun ("gpgme_data_set_file_name" c-gpgme-data-set-file-name) gpgme-error-t
  (dh gpgme-data-t))

```

```
(file-name string-or-nil-t))
```

```
(defcfun ("gpgme_data_new_from_file" c-gpgme-data-new-from-file) gpgme-error-t  
  (dh-p :pointer)  
  (fname :string)  
  (copy :int))
```

```
(defcfun ("gpgme_data_new_from_filepart" c-gpgme-data-new-from-filepart)  
  gpgme-error-t  
  (dh-p :pointer)  
  (fname :string)  
  (fp  
   :pointer)  
  (offset off-t)  
  (length size-t))
```

;;; Key and trust functions.

```
(defcfun ("gpgme_get_key" c-gpgme-get-key) gpgme-error-t  
  (ctx gpgme-ctx-t)  
  (fpr :string)  
  (key-p :pointer)  
  (secret :boolean))
```

```
(defcfun ("gpgme_key_ref" c-gpgme-key-ref) :void  
  (key gpgme-key-t))
```

```
(defcfun ("gpgme_key_unref" c-gpgme-key-unref) :void  
  (key gpgme-key-t))
```

;;; Crypto operations.

```
(defcfun ("gpgme_cancel" c-gpgme-cancel) gpgme-error-t  
  (ctx gpgme-ctx-t))
```

;;;

```
(defctype gpgme-invalid-key-t  
  (:wrapper :pointer  
   :from-c translate-gpgme-invalid-key-t-from-foreign)  
  "An invalid key structure.")
```

```
(defcstruct gpgme-invalid-key  
  "An invalid key structure."  
  (next gpgme-invalid-key-t)  
  (fpr :string)  
  (reason gpgme-error-no-signal-t))
```

::: Encryption.

```
(defcstruct gpgme-op-encrypt-result
  "Encryption result structure."
  (invalid-recipients gpgme-invalid-key-t))
```

```
(defctype gpgme-op-encrypt-result-t
  (:wrapper :pointer
   :from-c translate-gpgme-op-encrypt-result-t-from-foreign)
  "An encryption result structure.")
```

```
(defcfun ("gpgme_op_encrypt_result" c-gpgme-op-encrypt-result)
  gpgme-op-encrypt-result-t
  (ctx gpgme-ctx-t))
```

```
(defbitfield gpgme-encrypt-flags-t
  (:always-trust 1)
  (:no-encrypt-to 2)
  (:prepare 4)
  (:expect-sign 8)
  (:no-compress 16)
  (:symmetric 32)
  (:throw-keyids 64)
  (:wrap 128)
  (:want-address 256))
```

```
(defcfun ("gpgme_op_encrypt_start" c-gpgme-op-encrypt-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (recp :pointer) ; Key array.
  (flags gpgme-encrypt-flags-t)
  (plain gpgme-data-t)
  (cipher gpgme-data-t))
```

```
(defcfun ("gpgme_op_encrypt" c-gpgme-op-encrypt) gpgme-error-t
  (ctx gpgme-ctx-t)
  (recp :pointer) ; Key array.
  (flags gpgme-encrypt-flags-t)
  (plain gpgme-data-t)
  (cipher gpgme-data-t))
```

```
(defcfun ("gpgme_op_encrypt_sign_start" c-gpgme-op-encrypt-sign-start)
  gpgme-error-t
  (ctx gpgme-ctx-t)
  (recp :pointer) ; Key array.
  (flags gpgme-encrypt-flags-t)
  (plain gpgme-data-t)
  (cipher gpgme-data-t))
```

```

(defcfun ("gpgme_op_encrypt_sign"
  c-gpgme-op-encrypt-sign) gpgme-error-t
  (ctx gpgme-ctx-t)
  (recp :pointer) ; Key array.
  (flags gpgme-encrypt-flags-t)
  (plain gpgme-data-t)
  (cipher gpgme-data-t))

;;; Decryption.

(defctype gpgme-recipient-t
  (:wrapper :pointer
   :from-c translate-gpgme-recipient-t-from-foreign)
  "A recipient structure.")

(defcstruct gpgme-recipient
  "Recipient structure."
  (next gpgme-recipient-t)
  (keyid :string)
  (-keyid :char :count 17)
  (pubkey-algo gpgme-pubkey-algo-t)
  (status gpgme-error-no-signal-t))

(defbitfield gpgme-op-decrypt-result-bitfield
  "Decryption result structure bitfield."
  (:wrong-key-usage 1)
  (:is-de-vs 2)
  (:is-mine 4))

(defcstruct gpgme-op-decrypt-result
  "Decryption result structure."
  (unsupported-algorithm :string)
  (bitfield gpgme-op-decrypt-result-bitfield)
  (recipients gpgme-recipient-t)
  (file-name :string))

(defctype gpgme-op-decrypt-result-t
  (:wrapper :pointer
   :from-c translate-gpgme-op-decrypt-result-t-from-foreign)
  "A decryption result structure.")

(defcfun ("gpgme_op_decrypt_result" c-gpgme-op-decrypt-result)
  gpgme-op-decrypt-result-t
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_decrypt_start" c-gpgme-op-decrypt-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (cipher gpgme-data-t))

```



```
(plain gpgme-data-t))
```

```
(defcfun ("gpgme_op_decrypt" c-gpgme-op-decrypt) gpgme-error-t  
  (ctx gpgme-ctx-t)  
  (cipher gpgme-data-t)  
  (plain gpgme-data-t))
```

```
(defcfun ("gpgme_op_decrypt_verify_start" c-gpgme-op-decrypt-verify-start)  
  gpgme-error-t  
  (ctx gpgme-ctx-t)  
  (cipher gpgme-data-t)  
  (plain gpgme-data-t))
```

```
(defcfun ("gpgme_op_decrypt_verify" c-gpgme-op-decrypt-verify) gpgme-error-t  
  (ctx gpgme-ctx-t)  
  (cipher gpgme-data-t)  
  (plain gpgme-data-t))
```

```
::: Signing.
```

```
(defctype gpgme-new-signature-t  
  (:wrapper :pointer  
   :from-c translate-gpgme-new-signature-t-from-foreign)  
  "A new signature structure.")
```

```
(defcstruct gpgme-new-signature  
  "New signature structure."  
  (next gpgme-new-signature-t)  
  (type gpgme-sig-mode-t)  
  (pubkey-algo gpgme-pubkey-algo-t)  
  (hash-algo gpgme-hash-algo-t)  
  (-obsolete-class :unsigned-long)  
  (timestamp :long)  
  (fpr :string)  
  (-obsolete-class-2 :unsigned-int)  
  (sig-class :unsigned-int))
```

```
(defcstruct gpgme-op-sign-result  
  "Signing result structure."  
  (invalid-signers gpgme-invalid-key-t)  
  (signatures gpgme-new-signature-t))
```

```
(defctype gpgme-op-sign-result-t  
  (:wrapper :pointer  
   :from-c translate-gpgme-op-sign-result-t-from-foreign)  
  "A signing result structure.")
```

```
(defcfun ("gpgme_op_sign_result" c-gpgme-op-sign-result)
```

```

    gpgme-op-sign-result-t
    (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_sign_start" c-gpgme-op-sign-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (plain gpgme-data-t)
  (sig gpgme-data-t)
  (mode gpgme-sig-mode-t))

(defcfun ("gpgme_op_sign" c-gpgme-op-sign) gpgme-error-t
  (ctx gpgme-ctx-t)
  (plain gpgme-data-t)
  (sig gpgme-data-t)
  (mode gpgme-sig-mode-t))

;; Verify.

(defbitfield (gpgme-sigsum-t :unsigned-int)
  "Flags
used for the summary field in a gpgme-signature-t."
  (:valid #x0001)
  (:green #x0002)
  (:red #x0004)
  (:key-revoked #x0010)
  (:key-expired #x0020)
  (:sig-expired #x0040)
  (:key-missing #x0080)
  (:crl-missing #x0100)
  (:crl-too-old #x0200)
  (:bad-policy #x0400)
  (:sys-error #x0800)
  (:tofu-conflict #x1000))

(defctype gpgme-signature-t
  (:wrapper :pointer
   :from-c translate-gpgme-signature-t-from-foreign)
  "A signature structure.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-signature-bitfield :unsigned-int)
  "The signature bitfield."
  (:wrong-key-usage 1)
  (:pka-trust 2)
  (:chain-model 4)
  (:is-de-vs 8))

(defcstruct gpgme-signature
  "Signature structure."

```

```

(next gpgme-signature-t)
(summary gpgme-sigsum-t)
(fpr :string)
(status gpgme-error-no-signal-t)
(notations gpgme-sig-notation-t)
(timestamp :unsigned-long)
(exp-timestamp :unsigned-long)
(bitfield gpgme-signature-bitfield)
(Validity gpgme-validity-t)
(Validity-reason
 gpgme-error-no-signal-t)
(pubkey-algo gpgme-pubkey-algo-t)
(hash-algo gpgme-hash-algo-t))

(defcstruct gpgme-op-verify-result
 "Verify result structure."
 (signatures gpgme-signature-t)
 (file-name :string))

(defctype gpgme-op-verify-result-t
 (:wrapper :pointer
 :from-c translate-gpgme-op-verify-result-t-from-foreign)
 "A verify result structure.")

(defcfun ("gpgme_op_verify_result" c-gpgme-op-verify-result)
 gpgme-op-verify-result-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_verify_start" c-gpgme-op-verify-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (sig gpgme-data-t)
 (signed-text gpgme-data-t)
 (plaintext gpgme-data-t))

(defcfun ("gpgme_op_verify" c-gpgme-op-verify) gpgme-error-t
 (ctx gpgme-ctx-t)
 (sig gpgme-data-t)
 (signed-text gpgme-data-t)
 (plaintext gpgme-data-t))

;;; Import.

(defbitfield (gpgme-import-flags-t :unsigned-int)
 "Flags used for the import status field."
 (:new #x0001)
 (:uid #x0002)
 (:sig #x0004)
 (:subkey #x0008))

```

```

(:secret
 #x0010))

(defctype gpgme-import-status-t
  (:wrapper :pointer
   :from-c translate-gpgme-import-status-t-from-foreign)
  "An import status structure.")

(defcstruct gpgme-import-status
  "New import status structure."
  (next gpgme-import-status-t)
  (fpr :string)
  (result gpgme-error-no-signal-t)
  (status :unsigned-int))

(defcstruct gpgme-op-import-result
  "Import result structure."
  (considered :int)
  (no-user-id :int)
  (imported :int)
  (imported-rsa :int)
  (unchanged :int)
  (new-user-ids :int)
  (new-sub-keys :int)
  (new-signatures :int)
  (new-revocations :int)
  (secret-read :int)
  (secret-imported :int)
  (secret-unchanged :int)
  (skipped-new-keys :int)
  (not-imported :int)
  (imports gpgme-import-status-t))

(defctype gpgme-op-import-result-t
  (:wrapper :pointer
   :from-c translate-gpgme-op-import-result-t-from-foreign)
  "An import status result structure.")

(defcfun ("gpgme_op_import_result" c-gpgme-op-import-result)
  gpgme-op-import-result-t
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_import_start" c-gpgme-op-import-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (keydata gpgme-data-t))

(defcfun ("gpgme_op_import" c-gpgme-op-import) gpgme-error-t
  (ctx gpgme-ctx-t))

```

```
(keydata gpgme-data-t))
```

```
::: Export.
```

```
(defcfun ("gpgme_op_export_start" c-gpgme-op-export-start) gpgme-error-t  
  (ctx gpgme-ctx-t)  
  (pattern :string)  
  (reserved :unsigned-int)  
  (keydata gpgme-data-t))
```

```
(defcfun ("gpgme_op_export" c-gpgme-op-export) gpgme-error-t  
  (ctx gpgme-ctx-t)  
  (pattern :string)  
  (reserved :unsigned-int)  
  (keydata gpgme-data-t))
```

```
::: FIXME: Extended export interfaces require array handling.
```

```
::: Key generation.
```

```
(defbitfield (gpgme-genkey-flags-t :unsigned-int)  
  "Flags used for the key generation result bitfield."  
  (:primary #x0001)  
  (:sub #x0002)  
  (:uid #x0004))
```

```
(defcstruct gpgme-op-genkey-result  
  "Key generation result structure."  
  (bitfield gpgme-genkey-flags-t)  
  (fpr :string))
```

```
(defctype gpgme-op-genkey-result-t :pointer  
  "A  
  key generation result structure.")
```

```
(defcfun ("gpgme_op_genkey_result" c-gpgme-op-genkey-result)  
  gpgme-op-genkey-result-t  
  (ctx gpgme-ctx-t))
```

```
(defcfun ("gpgme_op_genkey_start" c-gpgme-op-genkey-start) gpgme-error-t  
  (ctx gpgme-ctx-t)  
  (parms :string)  
  (pubkey gpgme-data-t)  
  (seckey gpgme-data-t))
```

```
(defcfun ("gpgme_op_genkey" c-gpgme-op-genkey) gpgme-error-t  
  (ctx gpgme-ctx-t)  
  (parms :string))
```

```
(pubkey gpgme-data-t)
(seckey gpgme-data-t)
```

;;; Key deletion.

```
(defcfun ("gpgme_op_delete_start" c-gpgme-op-delete-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (key gpgme-key-t)
  (allow-secret :int))
```

```
(defcfun ("gpgme_op_delete" c-gpgme-op-delete) gpgme-error-t
  (ctx gpgme-ctx-t)
  (key gpgme-key-t)
  (allow-secret :int))
```

;;; FIXME: Add edit interfaces.

;;; Keylist interface.

```
(defbitfield (gpgme-keylist-flags-t :unsigned-int)
  "Flags used for the key listing result bitfield."
  (:truncated #x0001))
```

```
(defcstruct gpgme-op-keylist-result
  "Key listing result structure."
  (bitfield
  gpgme-keylist-flags-t))
```

```
(defctype gpgme-op-keylist-result-t :pointer
  "A key listing result structure.")
```

```
(defcfun ("gpgme_op_keylist_result" c-gpgme-op-keylist-result)
  gpgme-op-keylist-result-t
  (ctx gpgme-ctx-t))
```

```
(defcfun ("gpgme_op_keylist_start" c-gpgme-op-keylist-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (pattern :string)
  (secret_only :boolean))
```

;;; FIXME: Extended keylisting requires array handling.

```
(defcfun ("gpgme_op_keylist_next" c-gpgme-op-keylist-next) gpgme-error-t
  (ctx gpgme-ctx-t)
  (r-key :pointer))
```

```
(defcfun ("gpgme_op_keylist_end" c-gpgme-op-keylist-end) gpgme-error-t
  (ctx gpgme-ctx-t))
```

;;; Various functions.

```
(defcfun ("gpgme_check_version" c-gpgme-check-version) :string
  (req-version string-or-nil-t))
```

```
(defcfun ("gpgme_get_engine_info" c-gpgme-get-engine-info) gpgme-error-t
  (engine-info-p :pointer))
```

```
(defcfun ("gpgme_set_engine_info" c-gpgme-set-engine-info) gpgme-error-t
  (proto gpgme-protocol-t)
  (file-name string-or-nil-t)
  (home-dir
  string-or-nil-t))
```

```
(defcfun ("gpgme_engine_check_version" c-gpgme-engine-check-version)
  gpgme-error-t
  (proto gpgme-protocol-t))
```

;;;

;;; L I S P I N T E R F A C E

;;;

;;;

;;; Lisp type translators.

;;;

;;; Both directions.

;;; cert-int-t is a helper type that takes care of representing the  
;;; default number of certs as NIL.

```
(defun translate-cert-int-t-from-foreign (value)
  (cond
    ((eql value +include-certs-default+) nil)
    (t value)))
```

```
(defun translate-cert-int-t-to-foreign (value)
  (cond
    (value value)
    (t +include-certs-default+)))
```

;;; string-or-nil-t translates a null pointer to NIL and vice versa.  
;;; Translation from foreign null pointer already works as expected.

```
(defun translate-string-or-nil-t-to-foreign (value)
  (cond
    (value value)
```

```
(t (null-pointer))))))
```

```
;;; Output only.
```

```
;;; These type translators only convert from foreign type, because we  
;;; never use these types in the other direction.
```

```
;;; Convert gpgme-engine-info-t linked lists into a  
list of property  
;;; lists. Note that this converter will automatically be invoked  
;;; recursively.
```

```
;;;
```

```
;;; FIXME: Should we use a hash table (or struct, or clos) instead of  
;;; property list, as recommended by the Lisp FAQ?
```

```
(defun translate-gpgme-engine-info-t-from-foreign (value)  
  (cond  
    ((null-pointer-p value) nil)  
    (t (with-foreign-slots  
        ((next protocol file-name version req-version home-dir)  
         value (:struct gpgme-engine-info))  
        (append (list protocol (list  
            :file-name file-name  
            :version version  
            :req-version req-version  
            :home-dir home-dir))  
                next))))))
```

```
(defun translate-gpgme-invalid-key-t-from-foreign (value)  
  (cond  
    ((null-pointer-p value) nil)  
    (t (with-foreign-slots  
        ((next fpr reason)  
         value (:struct gpgme-invalid-key))  
        (append (list (list :fpr fpr  
            :reason reason))  
                next))))))
```

```
(defun translate-gpgme-op-encrypt-result-t-from-foreign (value)  
  (cond  
    ((null-pointer-p value) nil)  
    (t (with-foreign-slots  
        ((invalid-recipients)  
         value (:struct gpgme-op-encrypt-result))  
        (list :encrypt  
            (list :invalid-recipients invalid-recipients))))))
```



```
(defun translate-gpgme-recipient-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
        ((next keyid pubkey-algo status)
         value (:struct gpgme-recipient))
        (append (list (list :keyid keyid
                          :pubkey-algo pubkey-algo
                          :status status))
                next))))))
```

```
(defun translate-gpgme-op-decrypt-result-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
        ((unsupported-algorithm bitfield recipients file-name)
         value (:struct gpgme-op-decrypt-result))
        (list :decrypt (list :unsupported-algorithm unsupported-algorithm
                          :bitfield bitfield
                          :recipients recipients
                          :file-name file-name))))))
```

```
(defun translate-gpgme-new-signature-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
        ((next
         type pubkey-algo hash-algo timestamp fpr sig-class)
         value (:struct gpgme-new-signature))
        (append (list (list :type type
                          :pubkey-algo pubkey-algo
                          :hash-algo hash-algo
                          :timestamp timestamp
                          :fpr fpr
                          :sig-class sig-class))
                next))))))
```

```
(defun translate-gpgme-op-sign-result-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
        ((invalid-signers signatures)
         value (:struct gpgme-op-sign-result))
        (list :sign (list :invalid-signers invalid-signers
                          :signatures signatures))))))
```

```
(defun translate-gpgme-signature-t-from-foreign (value)
  (cond
```

```

((null-pointer-p value) nil)
(t (with-foreign-slots
  ((next summary fpr status notations timestamp
  exp-timestamp bitfield validity validity-reason
  pubkey-algo hash-algo)
  value (:struct gpgme-signature))
(append (list (list :summary summary
  :fpr fpr
  :status status
  :notations notations
  :timestamp timestamp

  :exp-timestamp exp-timestamp
  :bitfield bitfield
  :validity validity
  :validity-reason validity-reason
  :pubkey-algo pubkey-algo))
next))))))

(defun translate-gpgme-op-verify-result-t-from-foreign (value)
(cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
    ((signatures file-name)
    value (:struct gpgme-op-verify-result))
    (list :verify (list :signatures signatures
      :file-name file-name))))))

(defun translate-gpgme-import-status-t-from-foreign (value)
(cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
    ((next fpr result status)
    value (:struct gpgme-import-status))
    (append (list (list :fpr fpr
      :result result
      :status status))
    next))))))

(defun translate-gpgme-op-import-result-t-from-foreign (value)
(cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
    ((considered no-user-id imported imported-rsa unchanged
    new-user-ids new-sub-keys new-signatures
    new-revocations
    secret-read secret-imported
    secret-unchanged skipped-new-keys not-imported

```

```

imports)
  value (:struct gpgme-op-import-result))
(list :verify (list :considered considered
  :no-user-id no-user-id
  :imported imported
  :imported-rsa imported-rsa
  :unchanged unchanged
  :new-user-ids new-user-ids
  :new-sub-keys new-sub-keys
  :new-signatures new-signatures
  :new-revocations new-revocations
  :secret-read secret-read
  :secret-imported secret-imported
  :secret-unchanged secret-unchanged
  :skipped-new-keys skipped-new-keys
  :not-imported not-imported
  :imports imports))))))

```

;;; Error handling.

;;; Use gpgme-error-no-signal-t to suppress automatic error handling

;;; at translation time.

;;;

;;; FIXME: Part of this probably should be in gpg-error!

```

(define-condition gpgme-error (error)
  ((value :initarg :gpgme-error :reader gpgme-error-value))
  (:report (lambda (c stream)
    (format stream "GPGME returned error: ~A (~A)"
      (gpgme-strerror (gpgme-error-value c))
      (gpgme-strsource (gpgme-error-value c))))))
(:documentation "Signalled when a GPGME function returns an error.")

```

```

(defun translate-gpgme-error-t-from-foreign (value)
  "Raise a GPGME-ERROR if VALUE is non-zero."
  (when (not (eql (gpgme-err-code value) :gpg-err-no-error))
    (error 'gpgme-error :gpgme-error value))
  (gpg-err-canonicalize value))

```

```

(defun translate-gpgme-error-t-to-foreign (value)
  "Canonicalize the error value."
  (if (eql (gpgme-err-code value) :gpg-err-no-error)
    0
    (gpg-err-as-value value)))

```

```

(defun translate-gpgme-error-no-signal-t-from-foreign (value)
  "Canonicalize the error value."

```

```
(gpg-err-canonicalize value))
```

```
;;; *INTERNAL* Lispy Function Interface that is still close to the C  
;;; interface.
```

```
;;; Passphrase callback management.
```

```
;;; Maybe: Instead, use subclassing, and provide a customizable  
;;; default implementation for ease-of-use.
```

```
(defvar  
  *passphrase-handles* (make-hash-table)  
  "Hash table with GPGME context address as key and the corresponding  
  passphrase callback object as value.")
```

```
(defcallback passphrase-cb gpgme-error-t ((handle :pointer)  
  (uid-hint :string)  
  (passphrase-info :string)  
  (prev-was-bad :boolean)  
  (fd :int))  
  (handler-case  
    (let* ((passphrase-cb  
           (gethash (pointer-address handle) *passphrase-handles*))  
          (passphrase  
            (cond  
              ((functionp passphrase-cb)  
               (concatenate 'string  
                (funcall passphrase-cb uid-hint passphrase-info  
                  prev-was-bad)  
                '(\Newline))))  
              (t (concatenate 'string passphrase-cb '(\Newline))))))  
          (passphrase-len (length passphrase))  
          ;; FIXME: Could be more robust.  
          (res (system-write fd passphrase passphrase-len)))  
          (cond  
            ((< res passphrase-len) ; FIXME: Blech. A weak attempt to be robust.  
             (gpgme-error :gpg-err-ival))  
            (t (gpgme-error :gpg-err-no-error))))  
          (gpgme-error (err)  
            (gpgme-error-value err)  
            (system-error (err) (gpgme-error-from-errno (system-error-errno err)))  
            ;; FIXME: The original error gets lost here.  
            (condition (err) (progn  
              (when *debug*  
                (format t "DEBUG: passphrase-cb: Unexpressable: ~A~%"  
                  err))  
              (gpgme-error :gpg-err-general))))))
```

```

;;; CTX is a C-pointer to the context.
(defun gpgme-set-passphrase-cb (ctx cb)
  "Set the passphrase callback for CTX."
  (let ((handle (pointer-address ctx)))
    (cond
      (cb (setf (gethash handle *passphrase-handles*) cb))
      (c-gpgme-set-passphrase-cb ctx (callback passphrase-cb) ctx))
      (t (c-gpgme-set-passphrase-cb ctx (null-pointer) (null-pointer))
      (remhash handle *passphrase-handles*))))))

;;; Progress callback management.

;;; Maybe: Instead, use subclassing, and provide a customizable
;;; default implementation for ease-of-use.

(defvar *progress-handles* (make-hash-table)
  "Hash table with GPGME context address as key and the corresponding
  progress callback
  object as value.")

(defcallback progress-cb :void ((handle :pointer)
  (what :string)
  (type :int)
  (current :int)
  (total :int))
  (handler-case
    (let* ((progress-cb
      (gethash (pointer-address handle) *progress-handles*)))
      (funcall progress-cb what type current total))
      ;; FIXME: The original error gets lost here.
      (condition (err) (when *debug*
        (format t "DEBUG: progress-cb: Unexpressable: ~A~%"
          err))))))

;;; CTX is a C-pointer to the context.
(defun gpgme-set-progress-cb (ctx cb)
  "Set the progress callback for CTX."
  (let ((handle (pointer-address ctx)))
    (cond
      (cb (setf (gethash handle *progress-handles*) cb))
      (c-gpgme-set-progress-cb ctx (callback progress-cb) ctx))
      (t (c-gpgme-set-progress-cb ctx (null-pointer) (null-pointer))
      (remhash handle *progress-handles*))))))

;;; Context management.

(defun gpgme-new (&key (protocol :openpgp) armor textmode include-certs

```

```

keylist-mode passphrase progress file-name
home-dir)
"Allocate a new GPGME context."
(with-foreign-object (ctx-p 'gpgme-ctx-t)
  (c-gpgme-new ctx-p)
  (let ((ctx (mem-ref ctx-p 'gpgme-ctx-t)))
    ;;; Set locale?
    (gpgme-set-protocol ctx protocol)
    (gpgme-set-armor ctx armor)
    (gpgme-set-textmode ctx textmode)
    (when include-certs (gpgme-set-include-certs ctx include-certs))
    (when keylist-mode (gpgme-set-keylist-mode ctx keylist-mode))
    (gpgme-set-passphrase-cb ctx passphrase)
    (gpgme-set-progress-cb ctx progress)
    (gpgme-set-engine-info ctx protocol
      :file-name file-name :home-dir home-dir)
    (when *debug* (format t "DEBUG: gpgme-new: ~A~%" ctx)
      ctx)))

(defun gpgme-release (ctx)
  "Release a GPGME context."
  (when *debug* (format t "DEBUG: gpgme-release: ~A~%" ctx))
  (c-gpgme-release ctx))

(defun gpgme-set-protocol (ctx proto)
  "Set the protocol to be used by CTX to PROTO."
  (c-gpgme-set-protocol ctx proto))

(defun gpgme-get-protocol (ctx)
  "Get
the protocol used with CTX."
  (c-gpgme-get-protocol ctx))

;;; FIXME: How to do pretty printing?
;;;
;;; gpgme-get-protocol-name

(defun gpgme-set-armor (ctx armor)
  "If ARMOR is true, enable armor mode in CTX, disable it otherwise."
  (c-gpgme-set-armor ctx armor))

(defun gpgme-armor-p (ctx)
  "Return true if armor mode is set for CTX."
  (c-gpgme-get-armor ctx))

(defun gpgme-set-textmode (ctx textmode)
  "If TEXTMODE is true, enable text mode mode in CTX, disable it otherwise."
  (c-gpgme-set-textmode ctx textmode))

```

```

(defun gpgme-textmode-p (ctx)
  "Return true if text mode mode is set for CTX."
  (c-gpgme-get-textmode ctx))

(defun gpgme-set-include-certs (ctx &optional certs)
  "Include up to CERTS certificates in an S/MIME message."
  (c-gpgme-set-include-certs ctx certs))

(defun gpgme-get-include-certs (ctx)
  "Return the number of certs to include in an S/MIME message,
  or NIL if the default is used."
  (c-gpgme-get-include-certs ctx))

(defun gpgme-get-keylist-mode (ctx)
  "Get the keylist mode in CTX."
  (c-gpgme-get-keylist-mode ctx))

(defun gpgme-set-keylist-mode (ctx mode)
  "Set the keylist mode in CTX."
  (c-gpgme-set-keylist-mode ctx mode))

;;; FIXME: How to handle locale? cffi-grovel?

(defun gpgme-get-engine-info (&optional ctx)
  "Retrieve the engine info for CTX, or the default if CTX is omitted."
  (cond
   (ctx (c-gpgme-ctx-get-engine-info ctx))
   (t (with-foreign-object (info-p 'gpgme-engine-info-t)
        (c-gpgme-get-engine-info info-p)
        (mem-ref info-p 'gpgme-engine-info-t)))))

(defun gpgme-set-engine-info (ctx proto &key file-name home-dir)
  "Set the engine info for CTX, or the default if CTX is NIL."
  (cond
   (ctx (c-gpgme-ctx-set-engine-info ctx proto file-name home-dir))
   (t (c-gpgme-set-engine-info proto file-name home-dir))))

;;; FIXME: How to do pretty printing?
;;;
;;; gpgme_pubkey_algo_name, gpgme_hash_algo_name

(defun gpgme-set-signers (ctx keys)
  "Set the signers for the context CTX."
  (c-gpgme-signers-clear ctx)
  (dolist (key keys) (c-gpgme-signers-add ctx key)))

```

;;;

```
(defun gpgme-set-sig-notation (ctx notations)
  "Set the sig notation for the context CTX."
  (c-gpgme-sig-notation-clear ctx)
  (dolist (notation notations)
    (c-gpgme-sig-notation-add
     ctx (first notation) (second notation) (third notation))))
```

```
(defun gpgme-get-sig-notation (ctx)
  "Get the signature notation data for the context CTX."
  (c-gpgme-sig-notation-get ctx))
```

;;; FIXME: Add I/O callback interface, for integration with clg.

;;; FIXME: Add gpgme\_wait?

;;; Streams

;;; -----

;;;

;;; GPGME uses standard streams. You can define your own streams, or  
;;; use the existing file or string streams.

;;;

;;; A stream-spec is either a stream, or a list with a stream as its  
;;; first argument followed by keyword parameters: encoding,  
;;; file-name.

;;;

;;; FIXME: Eventually, we should provide a class that can be mixed  
;;; into stream classes and which provides accessors for encoding and  
;;; file-names. This interface  
;;; should be provided in addition to the  
;;; above sleazy interface, because the sleazy interface is easier to  
;;; use (less typing), and is quite sufficient in a number of cases.

;;;

;;; For best results, streams with element type (unsigned-byte 8)  
;;; should be used. Character streams may work if armor mode is used.

;;; Do we need to provide access to GPGME data objects through streams  
;;; as well? It seems to me that specific optimizations, like  
;;; directly writing to file descriptors, is better done by extending  
;;; the sleazy syntax (stream-spec) instead of customized streams.  
;;; Customized streams do buffering, and this may mess up things. Mmh.

```
(defvar *data-handles* (make-hash-table)
  "Hash table with GPGME data user callback handle address as key  
  and the corresponding stream as value.")
```

;;; The release callback removes the stream from the \*data-handles\*



```

;;; hash and releases the CBS structure that is used as the key in
;;; that hash. It is implicitly invoked (through
GPGME) by
;;; gpgme-data-release.
(defcallback data-release-cb :void ((handle :pointer))
  (unwind-protect (remhash (pointer-address handle) *data-handles*)
    (when (not (null-pointer-p handle)) (foreign-free handle))))

(defcallback data-read-cb ssize-t ((handle :pointer) (buffer :pointer)
  (size size-t))
  (when *debug* (format t "DEBUG: gpgme-data-read-cb: want ~A~%" size))
  (let ((stream (gethash (pointer-address handle) *data-handles*)))
    (cond
      (stream
        (let* ((stream-type (stream-element-type stream))
              (seq (make-array size :element-type stream-type))
              (read (read-sequence seq stream)))
          (cond
            ((equal stream-type '(unsigned-byte 8))
             (dotimes (i read)
              (setf (mem-aref buffer :unsigned-char i)
                    (aref (the byte-array seq) i))))
            ((eql stream-type 'character)
             (dotimes (i read)
              (setf (mem-aref buffer :unsigned-char
                                i)
                    (char-code (aref (the character-array seq) i))))))
          (t
           (dotimes (i read)
            (setf (mem-aref buffer :unsigned-char i)
                  (coerce (aref seq i) '(unsigned-byte 8))))))
          (when *debug* (format t "DEBUG: gpgme-data-read-cb: read ~A~%" read))
          read))
      (t
       (set-errno +ebadf+
                  -1))))

(defcallback data-write-cb ssize-t ((handle :pointer) (buffer :pointer)
  (size size-t))
  (when *debug* (format t "DEBUG: gpgme-data-write-cb: want ~A~%" size))
  (let ((stream (gethash (pointer-address handle) *data-handles*)))
    (cond
      (stream
        (let* ((stream-type (stream-element-type stream))
              (seq (make-array size :element-type stream-type)))
          (cond
            ((equal stream-type '(unsigned-byte 8))
             (dotimes (i size)
              (setf (mem-aref buffer :unsigned-char i)
                    (aref (the byte-array seq) i))))
            ((eql stream-type 'character)
             (dotimes (i size)
              (setf (mem-aref buffer :unsigned-char i)
                    (char-code (aref (the character-array seq) i))))))
          (t
           (dotimes (i size)
            (setf (mem-aref buffer :unsigned-char i)
                  (coerce (aref seq i) '(unsigned-byte 8))))))
          (when *debug* (format t "DEBUG: gpgme-data-write-cb: write ~A~%" size))
          write))
      (t
       (set-errno +ebadf+
                  -1))))

```

```

    (setf (aref (the byte-array seq) i)
          (mem-aref buffer :unsigned-char i))))
  ((eql stream-type 'character)
   (dotimes (i size)
     (setf (aref (the character-array seq) i)
           (code-char (mem-aref buffer :unsigned-char i))))))
  (t
   (dotimes (i size)
     (setf (aref seq i)
           (coerce (mem-aref buffer :unsigned-char i) stream-type))))))
  (write-sequence seq stream)
  size))
(t
 (set-errno +ebadf+
 -1))))

```

;;; This little helper macro allows us to swallow the cbs structure by  
 ;;; simply setting it to a null pointer, but still protect against  
 ;;; conditions.

```

(defmacro with-cbs-swallowed ((cbs) &body body)
  `(let ((,cbs (foreign-alloc '(:struct gpgme-data-cbs))))
    (unwind-protect (progn ,@body)
      (when (not (null-pointer-p ,cbs)) (foreign-free ,cbs)))))

```

```

(defun gpgme-data-new (stream &key encoding file-name)
  "Allocate a new GPGME data object for STREAM."
  (with-foreign-object (dh-p 'gpgme-data-t)
    ;;; We allocate one CBS structure
    for each stream we wrap in a
    ;;; data object. Although we could also share all these
    ;;; structures, as they contain the very same callbacks, we need a
    ;;; unique C pointer as handle anyway to look up the stream in the
    ;;; callback. This is a convenient one to use.

```

```

    (with-cbs-swallowed (cbs)
      (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'read)
            (callback data-read-cb))
      (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'write)
            (callback data-write-cb))
      (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'seek)
            (null-pointer))
      (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'release)
            (callback data-release-cb))
      (c-gpgme-data-new-from-cbs dh-p cbs cbs)
      (let ((dh (mem-ref dh-p 'gpgme-data-t)))
        (when encoding (gpgme-data-set-encoding dh encoding))
        (when file-name (gpgme-data-set-file-name dh file-name))
        ;;; Install the stream into the hash table and

```

```

swallow the cbs
  ;; structure while protecting against any errors.
(unwind-protect
  (progn
    (setf (gethash (pointer-address cbs) *data-handles*) stream)
    (setf cbs (null-pointer)))
  (when (not (null-pointer-p cbs)) (c-gpgme-data-release dh)))
  (when *debug* (format t "DEBUG: gpgme-data-new: ~A~%" dh))
  dh)))

;; This function releases a GPGME data object. It implicitly
;; invokes the data-release-cb function to clean up associated junk.
(defun gpgme-data-release (dh)
  "Release a GPGME data object."
  (when *debug* (format t "DEBUG: gpgme-data-release: ~A~%" dh))
  (c-gpgme-data-release dh))

(defclass data ()
  (c-data) ; The C data object pointer
  (:documentation "The GPGME data type.))

(defmethod initialize-instance :after ((data data) &key streamspec
                                       &allow-other-keys)
  (let ((c-data (if (listp streamspec)
                    (apply #'gpgme-data-new streamspec)
                    (gpgme-data-new streamspec))))
    (cleanup t)
    (unwind-protect
      (progn
        (setf (slot-value data 'c-data) c-data)
        (finalize data (lambda () (gpgme-data-release c-data)))
        (setf cleanup nil))
      (if cleanup (gpgme-data-release c-data))))))

(defun translate-gpgme-data-t-to-foreign (value)
  ;; Allow a pointer to be passed directly for the finalizer to work.
  (cond
    ((null value) (null-pointer))
    ((pointerp value) value)
    (t (slot-value value 'c-data))))

(defmacro with-gpgme-data ((dh streamspec) &body body)
  `(let ((,dh (make-instance 'data :streamspec ,streamspec)))
    ,@body))

(defun gpgme-data-get-encoding (dh)
  "Get the encoding associated with the data object DH."
  (c-gpgme-data-get-encoding dh))

```

```

(defun gpgme-data-set-encoding (dh encoding)
  "Set the encoding associated with the data object DH to ENCODING."
  (c-gpgme-data-set-encoding dh encoding))

(defun gpgme-data-get-file-name (dh)
  "Get the file name associated with the data object
  DH."
  (c-gpgme-data-get-file-name dh))

(defun gpgme-data-set-file-name (dh file-name)
  "Set the file name associated with the data object DH to FILE-NAME."
  (c-gpgme-data-set-file-name dh file-name))

;;; FIXME: Add key accessor interfaces.

(defun gpgme-get-key (ctx fpr &optional secret)
  "Get the key with the fingerprint FPR from the context CTX."
  (with-foreign-object (key-p 'gpgme-key-t)
    (c-gpgme-get-key ctx fpr key-p secret)
    (mem-ref key-p 'gpgme-key-t)))

(defun gpgme-key-ref (key)
  "Acquire an additional reference to the key KEY."
  (when *debug* (format t "DEBUG: gpgme-key-ref: ~A~%" key))
  (c-gpgme-key-ref key))

(defun gpgme-key-unref (key)
  "Release a reference to the key KEY."
  (when *debug* (format t "DEBUG: gpgme-key-unref: ~A~%" key))
  (c-gpgme-key-unref key))

;;; FIXME: We REALLY need pretty printing for keys and all the other
;;; big structs.

;;; Various interfaces.

(defun gpgme-check-version (&optional req-version)
  (c-gpgme-check-version req-version))

;;;
;;;
The *EXPORTED* CLOS interface.
;;;

;;; The context type.

;;; We wrap the C context pointer into a class object to be able to

```

;;; stick a finalizer on it.

```
(defclass context ()  
  (c-ctx ; The C context object pointer.  
    signers ; The list of signers.  
    sig-notation) ; The list of signers.  
  (:documentation "The GPGME context type."))
```

```
(defmethod initialize-instance :after ((ctx context) &rest rest  
  &key &allow-other-keys)  
  (let ((c-ctx (apply #'gpgme-new rest))  
        (cleanup t))  
    (unwind-protect  
      (progn (setf (slot-value ctx 'c-ctx) c-ctx)  
              (finalize ctx (lambda () (gpgme-release c-ctx))))  
      (setf cleanup nil))  
    (if cleanup (gpgme-release c-ctx))))))
```

```
(defun translate-gpgme-ctx-t-to-foreign (value)  
  ;; Allow a pointer to be passed directly for the finalizer to work.  
  (if (pointerp value) value (slot-value value 'c-ctx)))
```

```
(defmacro context (&rest rest)  
  "Create a new GPGME context."  
  `(make-instance 'context ,@rest))
```

;;; The context type: Accessor  
functions.

;;; The context type: Accessor functions: Protocol.

```
(defgeneric protocol (ctx)  
  (:documentation "Get the protocol of CONTEXT."))
```

```
(defmethod protocol ((ctx context))  
  (gpgme-get-protocol ctx))
```

```
(defgeneric (setf protocol) (protocol ctx)  
  (:documentation "Set the protocol of CONTEXT to PROTOCOL."))
```

;;; FIXME: Adjust translator to reject invalid protocols. Currently,  
;;; specifying an invalid protocol throws a "NIL is not 32 signed int"  
;;; error. This is suboptimal.

```
(defmethod (setf protocol) (protocol (ctx context))  
  (gpgme-set-protocol ctx protocol))
```

;;; The context type: Accessor functions: Armor.

;;; FIXME: Is it good style to make foop setf-able? Or should it be

::: foo/foop for set/get?

```
(defgeneric armorp (ctx)
  (:documentation "Get the armor flag of CONTEXT."))
```

```
(defmethod armorp ((ctx context))
  (gpgme-armor-p ctx))
```

```
(defgeneric (setf armorp) (armor ctx)
  (:documentation "Set the armor flag of CONTEXT to ARMOR."))
```

```
(defmethod (setf armorp) (armor (ctx
  context))
  (gpgme-set-armor ctx armor))
```

::: The context type: Accessor functions: Textmode.  
::: FIXME: Is it good style to make foop setf-able? Or should it be  
::: foo/foop for set/get?

```
(defgeneric textmodep (ctx)
  (:documentation "Get the text mode flag of CONTEXT."))
```

```
(defmethod textmodep ((ctx context))
  (gpgme-textmode-p ctx))
```

```
(defgeneric (setf textmodep) (textmode ctx)
  (:documentation "Set the text mode flag of CONTEXT to TEXTMODE."))
```

```
(defmethod (setf textmodep) (textmode (ctx context))
  (gpgme-set-textmode ctx textmode))
```

::: The context type: Accessor functions: Include Certs.

```
(defgeneric include-certs (ctx)
  (:documentation "Get the number of included certificates in an
  S/MIME message, or NIL if the default is used."))
```

```
(defmethod include-certs ((ctx context))
  (gpgme-get-include-certs ctx))
```

```
(defgeneric (setf include-certs) (certs ctx)
  (:documentation "Return the number of certificates to include in an
  S/MIME message, or
  NIL if the default is used."))
```

```
(defmethod (setf include-certs) (certs (ctx context))
  (gpgme-set-include-certs ctx certs))
```

;;; The context type: Accessor functions: Engine info.

```
(defgeneric engine-info (ctx)
  (:documentation "Retrieve the engine info for CTX."))

(defmethod engine-info ((ctx context))
  (gpgme-get-engine-info ctx))

(defgeneric (setf engine-info) (info ctx)
  (:documentation "Set the engine info for CTX."))

(defmethod (setf engine-info) (info (ctx context))
  (dolist (proto '(:openpgp :cms))
    (let ((pinfo (getf info proto)))
      (when pinfo
        (gpgme-set-engine-info ctx proto :file-name (getf pinfo :file-name)
                               :home-dir (getf pinfo :home-dir))))))
```

;;; The context type: Accessor functions: Keylist mode.

```
(defgeneric keylist-mode (ctx)
  (:documentation "Get the keylist mode of CTX."))

(defmethod keylist-mode ((ctx context))
  (gpgme-get-keylist-mode ctx))

(defgeneric (setf keylist-mode) (mode ctx)
  (:documentation "Set the keylist mode of CTX to MODE."))

(defmethod
  (setf keylist-mode) (mode (ctx context))
  (gpgme-set-keylist-mode ctx mode))
```

;;; The context type: Accessor functions: Signers.

```
(defgeneric signers (ctx)
  (:documentation "Get the signers of CTX."))

(defmethod signers ((ctx context))
  (slot-value ctx 'signers))

(defgeneric (setf signers) (signers ctx)
  (:documentation "Set the signers of CTX to SIGNERS."))

(defmethod (setf keylist-mode) (signers (ctx context))
  (gpgme-set-signers ctx signers)
  (setf (slot-value ctx 'signers) signers))
```

;;; The context type: Accessor functions: Sig notations.

```
(defgeneric sig-notations (ctx)
  (:documentation "Get the signature notations of CTX."))

(defmethod sig-notations ((ctx context))
  (slot-value ctx 'signers))

(defgeneric (setf sig-notations) (notations ctx)
  (:documentation "Set the signature notations of CTX to NOTATIONS."))

(defmethod (setf sig-notations) (notations (ctx context))
  (gpgme-set-signers ctx notations)
  (setf (slot-value ctx 'notations) notations))
```

;;;

The context type: Support macros.

```
(defmacro with-context ((ctx &rest rest) &body body)
  `(let ((,ctx (make-instance 'context ,@rest)))
    ,@body))
```

;;; The key type.

```
(defclass key ()
  (c-key) ; The C key object pointer.
  (:documentation "The GPGME key type."))
```

;;; In the initializer, we swallow the c-key argument.

```
(defmethod initialize-instance :after ((key key) &key c-key
  &allow-other-keys)
  (setf (slot-value key 'c-key) c-key)
  (finalize key (lambda () (gpgme-key-unref c-key))))
```

```
(defun translate-gpgme-key-t-from-foreign (value)
  (when *debug* (format t "DEBUG: import key: ~A~%" value))
  (make-instance 'key :c-key value))
```

```
(defun translate-gpgme-key-t-to-foreign (value)
  ;; Allow a pointer to be passed directly for the finalizer to work.
  (if (pointerp value) value (slot-value value 'c-key)))
```

```
(defmethod print-object ((key key) stream)
  (print-unreadable-object (key stream :type t :identity t)
    (format stream "~s" (fpr key))))
```

;;; The key type:



Accessor functions.

```
;;; FIXME: The bitfield and flags contain redundant information at
;;; this point.  FIXME: Deal nicer with zero-length name (policy url)
;;; and zero length value (omit?) and human-readable (convert to string).
;;; FIXME: Turn binary data into sequence or vector or what it should be.
;;; FIXME: Turn the whole thing into a hash?
```

```
(defun translate-gpgme-sig-notation-t-from-foreign (value)
```

```
(cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
      ((next name value name-len value-len flags bitfield)
       value (:struct gpgme-sig-notation))
      (append (list (list
                    :name name
                    :value value
                    :name-len name-len
                    :value-len value-len
                    :flags flags
                    :bitfield bitfield))
              next))))))
```

```
;;; FIXME: Deal nicer with timestamps.  bitfield field name?
```

```
(defun translate-gpgme-subkey-t-from-foreign (value)
```

```
(cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
      ((next bitfield pubkey-algo length keyid fpr timestamp expires)
       value (:struct gpgme-subkey))
      next))))
```

```
(append (list (list
              :bitfield bitfield
              :pubkey-algo pubkey-algo
              :length length
              :keyid keyid
              :fpr fpr
              :timestamp timestamp
              :expires expires))
        next))))
```

```
(defun translate-gpgme-key-sig-t-from-foreign (value)
```

```
(cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
      ((next bitfield pubkey-algo keyid timestamp expires status
         uid name email comment sig-class)
       value (:struct gpgme-key-sig))
      (append (list (list
```

```
:bitfield bitfield
:pubkey-algo pubkey-algo
:keyid keyid
:timestamp timestamp
:expires expires
:status status
:uid uid
:name name
:email email
:comment comment
:sig-class sig-class))
next))))
```

```
(defun translate-gpgme-user-id-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
        ((next bitfield validity uid name email comment signatures)
         value (:struct gpgme-user-id))
      (append (list (list
        :bitfield bitfield
        :validity validity
        :uid uid
        :name
name
        :email email
        :comment comment
        :signatures signatures))
        next))))))
```

```
(defun key-data (key)
  (with-slots (c-key) key
    (with-foreign-slots
      ((bitfield protocol issuer-serial issuer-name chain-id
        owner-trust subkeys uids keylist-mode)
       c-key (:struct gpgme-key))
      (list
        :bitfield bitfield
        :protocol protocol
        :issuer-serial issuer-serial
        :issuer-name issuer-name
        :chain-id chain-id
        :owner-trust owner-trust
        :subkeys subkeys
        :uids uids
        :keylist-mode keylist-mode))
    ))
```

```
(defgeneric fpr (key)
  (:documentation "Get the primary fingerprint of the key."))
```

```
(defmethod fpr ((key key))
  (getf (car (getf (key-data key) :subkeys)) :fpr))
```

::: The context type: Crypto-Operations.

```
(defgeneric get-key (ctx fpr &optional secret)
  (:documentation "Get the (secret) key FPR from CTX."))
```

```
(defmethod get-key ((ctx context) fpr &optional secret)
  (gpgme-get-key ctx fpr secret))
```

::: Encrypt.

```
(defgeneric
  op-encrypt (ctx recp plain cipher &key always-trust sign)
  (:documentation "Encrypt."))
```

```
(defmethod op-encrypt ((ctx context) recp plain cipher
  &key always-trust sign)
  (with-foreign-object (c-recp :pointer (+ 1 (length recp)))
    (dotimes (i (length recp))
      (setf (mem-aref c-recp 'gpgme-key-t i) (elt recp i)))
      (setf (mem-aref c-recp :pointer (length recp)) (null-pointer))
      (with-gpgme-data (in plain)
        (with-gpgme-data (out cipher)
          (let ((flags))
            (if always-trust (push :always-trust flags))
            (cond
              (sign
               (c-gpgme-op-encrypt-sign ctx c-recp flags in out)
               (append (c-gpgme-op-encrypt-result ctx)
                       (c-gpgme-op-sign-result ctx)))
              (t
               (c-gpgme-op-encrypt ctx c-recp flags in out)
               (c-gpgme-op-encrypt-result ctx))))))))))
```

::: Decrypt.

```
(defgeneric op-decrypt (ctx cipher plain &key verify)
  (:documentation "Decrypt."))
```

```
(defmethod op-decrypt ((ctx context) cipher plain &key verify)
  (with-gpgme-data (in cipher)
```

```
(with-gpgme-data
(out plain)
  (cond
(verify
(c-gpgme-op-decrypt-verify ctx in out)
(append (c-gpgme-op-decrypt-result ctx)
(c-gpgme-op-verify-result ctx)))
(t
(c-gpgme-op-decrypt ctx in out)
(c-gpgme-op-decrypt-result ctx))))))
```

;;; Signing.

```
(defgeneric op-sign (ctx plain sig &optional mode)
(:documentation "Sign."))
```

```
(defmethod op-sign ((ctx context) plain sig &optional (mode :none))
(with-gpgme-data (in plain)
  (with-gpgme-data (out sig)
    (c-gpgme-op-sign ctx in out mode)
    (c-gpgme-op-sign-result ctx))))
```

;;; Verify.

```
(defgeneric op-verify (ctx sig text &key detached)
(:documentation "Verify."))
```

```
(defmethod op-verify ((ctx context) sig text &key detached)
(with-gpgme-data (in sig)
  (with-gpgme-data (on text)
    (c-gpgme-op-verify ctx in (if detached on nil)
(if detached nil on))
    (c-gpgme-op-verify-result ctx))))
```

;;; Import.

```
(defgeneric op-import (ctx keydata)
(:documentation "Import."))
```

```
(defmethod op-import ((ctx context) keydata)
(with-gpgme-data (in keydata)
  (c-gpgme-op-import ctx in)
  (c-gpgme-op-import-result ctx)))
```

;;; Export.

```
(defgeneric op-export (ctx pattern keydata)
(:documentation "Export public key data matching PATTERN to the
```

```
stream KEYDATA."))
```

```
(defmethod op-export ((ctx context) pattern keydata)
  (with-gpgme-data (dh keydata)
    (c-gpgme-op-export ctx pattern 0 dh)))
```

```
::: Key generation.
```

```
:::
```

```
::: Initialization
```

```
:::
```

```
(defun check-version (&optional req-version)
  "Check that the GPGME version requirement is satisfied."
  (gpgme-check-version req-version))
```

```
(defparameter *version* (check-version)
  "The version number of GPGME used.")
(21:protected-private-key(3:elg(1:p193:5*n^f"Q'R0_6<y mec \=c7S8u[5
ZF'xf5yi9F@T=KhZdU0(k5nZEI/ R]njVITPU$W<xs-Yx)(1:g1:)(1:y192:O9GNR{?}Y_W[FD*zurmk%'R\>>e9pe
eU)uS% VJ!5F)yH*O
]l'7{ @wJmQP^jurx'V2H2j[G{q_ "8()(9:protected25:openpgp-s2k3-sha1-aes-cbc((4:sha18:o"%7:5242880)16:Hs*}u
)256:Gzk3%\Kb2=ooO@, )eBBI3F|OQP3eD%n,;~L-6UH^=64i);l
e+sG"(mlH_2sn_BBO7hRcZUt(p6,{5}37C3m8EY9=gQ )(12:protected-at15:20101008T070148)))
# *- mode: org *-
#+TITLE: A Short History of the GPGME bindings for Python
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltextra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
```

```
* Overview
```

```
:PROPERTIES:
```

```
:CUSTOM_ID: overview
```

```
:END:
```

```
| Version:      | 0.0.1          |
| GPGME Version: | 1.13.0        |
| Author:       | Ben McGinnes <ben@gnupg.org> |
| Author GPG Key: | DB4724E6FA4286C92B4E55C4321E4E2373590E5D |
| Language:     | Australian English, British English |
| xml:lang:     | en-AU, en-GB, en |
```

The GPGME Python bindings passed through many hands and numerous phases before, after a fifteen year journey, coming full circle to

return to the source. This is a short explanation of that journey.

\*\* In the beginning

:PROPERTIES:

:CUSTOM\_ID: in-the-beginning

:END:

In 2002 John Goerzen released PyME; Python bindings for the GPGME module which utilised the current release of Python of the time and SWIG.<sup>[fn:1]</sup> Shortly after creating it and ensuring it worked he stopped supporting it, though he left his work available on his Gopher site.

\*\* Keeping the flame alive

:PROPERTIES:

:CUSTOM\_ID: keeping-the-flame-alive

:END:

A couple of years later the project was picked up by Igor Belyi and actively developed and maintained by him from 2004 to 2008. Igor's whereabouts at the time of this document's creation are unknown, but the current authors do hope he is well. We're assuming (or hoping) that life did what life does and made continuing untenable.

\*\* Passing the torch

:PROPERTIES:

:CUSTOM\_ID: passing-the-torch

:END:

In 2014 Martin Albrecht wanted to patch a bug in the PyME code and discovered the absence of Igor. Following a discussion on the PyME mailing list he became the new maintainer for PyME, releasing version 0.9.0 in May of that year. He remains the maintainer of the original PyME release in Python 2.6 and 2.7 (available via PyPI).

\*\* Coming full circle

:PROPERTIES:

:CUSTOM\_ID: ouroboros

:END:

In 2015 Ben McGinnes approached Martin about a Python 3 version, while investigating how complex a task this would be the task ended up being completed. A subsequent discussion with Werner Koch led

to the decision to fold the Python 3 port back into the original GPGME release in the languages subdirectory for non-C bindings under the module name of =pyme3=.

In 2016 this PyME module was integrated back into the GPGME project by Justus Winter. During the course of this work Justus adjusted the port to restore limited support for Python 2, but not as many minor point releases as the original PyME package supports. During the course of this integration the package was renamed to more accurately reflect its status as a component of GPGME. The =pyme3= module was renamed to =gpg= and adopted by the upstream GnuPG team.

In 2017 Justus departed G10code and the GnuPG team. Following this Ben returned to maintain of gpgme Python bindings and continue building them from that point.

```
* Relics of the past
:PROPERTIES:
:CUSTOM_ID: relics-past
:END:
```

There are a few things, in addition to code specific factors, such as SWIG itself, which are worth noting here.

```
** The Annoyances of Git
:PROPERTIES:
:CUSTOM_ID: the-annoyances-of-git
:END:
```

As anyone who has ever worked with git knows, submodules are horrible way to deal with pretty much anything. In the interests of avoiding migraines, that was skipped with addition of the PyME code to GPGME.

Instead the files were added to a subdirectory of the =lang/= directory, along with a copy of the entire git log up to that point as a separate file within the =lang/python/docs/= directory.[fn:2] As the log for PyME is nearly 100KB and the log for GPGME is approximately 1MB, this would cause considerable bloat, as well as some confusion, should the two be merged.

Hence the unfortunate, but necessary, step to simply move the files. A regular repository version has been maintained should it be possible to implement this better in the future.

\*\* The Perils of PyPI

:PROPERTIES:  
:CUSTOM\_ID: the-perils-of-pypi  
:END:

The early port of the Python 2 `pyme` module as `pyme3` was never added to PyPI while the focus remained on development and testing during 2015 and early 2016. Later in 2016, however, when Justus completed his major integration work and subsequently renamed the module from `pyme3` to `gpg`, some prior releases were also provided through PyPI.

Since these bindings require a matching release of the GPGME libraries in order to function, it was determined that there was little benefit in also providing a copy through PyPI since anyone obtaining the GPGME source code would obtain the Python bindings source code at the same time. Whereas there was the potential to sew confusion amongst Python users installing the module from PyPI, only to discover that without the relevant C files, header files or SWIG compiled binaries, the Python module did them little good.

There are only two files on PyPI which might turn up in a search for this module or a sample of its content:

1. `gpg` (1.8.0) - Python bindings for GPGME GnuPG cryptography library
2. `pyme` (0.9.0) - Python support for GPGME GnuPG cryptography library

\*\*\* GPG 180 - Python bindings for GPGME GnuPG cryptography library

:PROPERTIES:  
:CUSTOM\_ID: pypi-gpgme-180  
:END:

This is the most recent version to reach PyPI and is the version of the official Python bindings which shipped with GPGME 1.8.0. If you have GPGME 1.8.0 installed and `/only/` 1.8.0 installed, then it is probably safe to use this copy from PyPI.

As there have been a lot of changes since the release of GPGME 1.8.0, the GnuPG Project recommends not using this version of the module and instead installing the current version of GPGME along with the Python bindings included with that package.

\*\*\* PyME 090 - Python support for GPGME GnuPG cryptography library

:PROPERTIES:  
:CUSTOM\_ID: pypi-gpgme-90



:END:

This is the last release of the PyME bindings maintained by Martin Albrecht and is only compatible with Python 2, it will not work with Python 3. This is the version of the software from which the port from Python 2 to Python 3 code was made in 2015.

Users of the more recent Python bindings will recognise numerous points of similarity, but also significant differences. It is likely that the more recent official bindings will feel "more pythonic."

For those using Python 2, there is essentially no harm in using this module, but it may lack a number of more recent features added to GPGME.

#### \* Footnotes

[fn:1] In all likelihood this would have been Python 2.2 or possibly Python 2.3.

[fn:2] The entire PyME git log and other preceding VCS logs are located in the =gpgme/lang/python/docs/old-commits.log= file.

```
# HACKING                                -*- org -*-  
#+TITLE: Hacking notes for GPGME  
#+STARTUP: showall
```

#### \* How to contribute

\*\* No more ChangeLog files

Do not modify any of the ChangeLog files in GPGME. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist" time. As such, there are strict requirements on the form of the commit log messages. The old ChangeLog files have all be renamed to ChangeLog-2011

\*\* Commit log requirements

Your commit log should always start with a one-line summary, the second line should be blank, and the remaining lines are usually ChangeLog-style entries for all affected files. However, it's fine -- even recommended -- to write a few lines of prose describing the change, when the summary and ChangeLog entries don't give enough of the big picture. Omit the leading TABs that you're used to seeing

in a "real" ChangeLog file, but keep the maximum line length at 72 or smaller, so that the generated ChangeLog lines, each with its leading TAB, will not exceed 80 columns. If you want to add text which shall not be copied to the ChangeLog, separate it by a line consisting of two dashes at the begin of a line.

Note that ./autogen.sh installs a git hook to do some basic syntax checking on the commit log message.

Typo fixes and documentation updates don't need a ChangeLog entry; thus you would use a commit message like

```
#+begin_example
Fix typo in a comment

--
#+end_example
```

The marker line here is important; without it the first line would appear in the ChangeLog.

If you exceptionally need to have longer lines in a commit log you may do this after this scissor line:

```
#+begin_example
# ----- >8 -----
#+end_example
```

(hash, blank, 24 dashes, blank, scissor, blank, 24 dashes).

Note that such a comment will be removed if the git commit option `--cleanup-scissor=` is used.

## \*\* License policy

GPGME is currently licensed under the LGPLv2.1+ with tools and the manual being under the GPLv3+. We may eventually update to a newer version of the licenses or a combination of them. It is thus important, that all contributed code allows for an update of the license; for example we can't accept code under the LGPLv2(only).

If you want to contribute code or documentation to GPGME you are asked to assert that the contribution is in accordance to the "GPGME Developer's Certificate of Origin" as found in the file "DCO". Except for a slight wording change, this DCO is identical to the one used by the Linux kernel. Please take these simple steps:

- Decide which mail address you want to use. Please have your real name in the address and not a pseudonym. Anonymous contributions

can only be done if you find a proxy who certifies for you.

- If your employer or school might claim ownership of code written by you; you need to talk to them to make sure that you have the right to contribute under the DCO.
- Send an OpenPGP signed mail to the `gnupg-devel@gnupg.org` public mailing list from your mail address. Include a copy of the DCO as found in the official master branch. Insert your name and email address into the DCO in the same way you want to use it later.

Example:

```
Signed-off-by: Joe R. Hacker <joe@example.org>
```

If you need it, you may perform simple transformations on the mail address: Replacing "@" by " at " or "." by " dot ".)

- That's it. From now on you only need to add a "Signed-off-by:" line with your name and mail address to the GIT commit message. It is recommended to send the patches using a PGP/MIME signed mail.

#### \*\* Coding standards

Please follow the GNU coding standards. If you are in doubt consult the existing code as an example. Do no re-indent code without a need. If you really need to do it, use a separate commit for such a change.

- C99 syntax should not be used; stick to C90.
- Please do not use C++ `///  
=` style comments.
- Try to fit lines into 80 columns.
- Ignore signed/unsigned pointer mismatches
- No arithmetic on void pointers; cast to `char*` first.

#### \*\* Commit log keywords

- `GnuPG-bug-id` :: Values are comma or space delimited bug numbers from `bug.gnupg.org` pertaining to this commit.
- `Debian-bug-id` :: Same as above but from the Debian bug tracker.
- `CVE-id` :: CVE id number pertaining to this commit.
- `Regression-due-to` :: Commit id of the regression fixed by this commit.
- `Fixes-commit` :: Commit id this commit fixes.
- `Reported-by` :: Value is a name or mail address of a bug reporter.
- `Suggested-by` :: Value is a name or mail address of someone who suggested this change.

- Co-authored-by :: Name or mail address of a co-author
- Some-comments-by :: Name or mail address of the author of  
additional comments (commit log or code).
- Proofread-by :: Sometimes used by translation commits.
- Signed-off-by :: Name or mail address of the developer

\* Debug hints

- Use gpgme-tool for manual tests.
- The envvar GPGME\_DEBUG enables debugging; see debug.[ch] for details.

Configuration files may go here. Note that config.h.in is auto-generated so that this file is not in git.

2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2011-04-06 Werner Koch <wk@g10code.com>

- \* gpg-error.m4: Update from current libgpg-error repo.

2010-05-07 Werner Koch <wk@g10code.com>

- \* libassuan.m4: Update from libassuan svn.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>

- \* libassuan.m4: Fix LIBASSUAN\_VERSION.

2006-06-08 Marcus Brinkmann <marcus@g10code.de>

- \* pth.m4: Add --all to pth-config invocation.

2006-02-22 Marcus Brinkmann <marcus@g10code.de>

- \* pth.m4: Fix code generation (required for Max OS X). Submitted by Emanuele Giaquinta <exg@gentoo.org>.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>

- \* glib-2.0.m4: New file.

2004-12-28 Werner Koch <wk@g10code.com>

\* pth.m4: Changed quoting for use with automake 1.9.

2004-09-14

Marcus Brinkmann <marcus@g10code.de>

\* pth.m4: Disable `_ac_pth_line`, and don't fail if Pth is not found.

\* glibc21.m4: New file.

\* gpg-error.m4: New file.

\* pth.m4: New file.

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This file is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, to the extent permitted by law; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. GPGME Developer's Certificate of Origin. Version 1.0

=====

By making a contribution to the GPGME project, I certify that:

(a) The contribution was created in whole or in part by me and I have the right to submit it under the free software license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate free software license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same free software license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed

consistent with this project or the free software license(s)  
involved.

Signed-off-by: [Your name and mail address]

2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2008-11-08 Moritz <moritz@gnu.org>

\* gpgme.lisp (size-t): Wrong call to defctype: function accepts optional, not keyword argument.

(ssize-t): Likewise.

(off-t): Likewise.

(gpgme-data-t, gpgme-ctx-t): Likewise.

(gpgme-error-t): Likewise.

(gpgme-error-no-signal-t): Likewise.

(gpgme-err-code-t): Likewise.

(gpgme-err-source-t): Likewise.

(gpgme-sig-notation-t, gpgme-engine-info-t): Likewise.

(gpgme-subkey-t): Likewise.

(gpgme-key-sig-t): Likewise.

(gpgme-user-id-t): Likewise.

(gpgme-key-t): Likewise.

(gpgme-data-cbs-t): Likewise.

(gpgme-invalid-key-t): Likewise.

(gpgme-op-encrypt-result-t): Likewise.

(gpgme-recipient-t): Likewise.

(gpgme-op-decrypt-result-t): Likewise.

(gpgme-new-signature-t):

Likewise.

(gpgme-op-sign-result-t): Likewise.

(gpgme-signature-t): Likewise.

(gpgme-op-verify-result-t): Likewise.

(gpgme-import-status-t): Likewise.

(gpgme-op-import-result-t): Likewise.

(gpgme-op-genkey-result-t): Likewise.

(gpgme-op-keylist-result-t): Likewise.

2006-07-06 Marcus Brinkmann <marcus@g10code.de>

\* Initial release.

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```
# -*- mode: org -*-
```

```
#+TITLE: What Was New in the GPGME Python Bindings and Documentation
```

```
#+AUTHOR: Ben McGinnes
```

```
#+LATEX_COMPILER: xelatex
```

```
#+LATEX_CLASS: article
```

```
#+LATEX_CLASS_OPTIONS: [12pt]
```

```
#+LATEX_HEADER: \usepackage{xltextra}
```

```
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
```

```
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
```

```
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}
```

```
* What Was New
```

```
:PROPERTIES:
```

```
:CUSTOM_ID: new-stuff
```

```
:END:
```

```
| Version:      | 0.0.1          |
| GPGME Version: | 1.13.0         |
| Author:       | Ben McGinnes <ben@gnupg.org> |
| Author GPG Key: | DB4724E6FA4286C92B4E55C4321E4E2373590E5D |
| Language:     | Australian English, British English |
| xml:lang:     | en-AU, en-GB, en |
```

The following are all the past /What's New/ sections for the Python Bindings HOWTO and other documentation.

```
** What Was New in GPGME 1120
```

```
:PROPERTIES:
```

```
:CUSTOM_ID: gpgme-1-12-0
```

```
:END:
```

The most obviously new point for those reading this guide is this section on other new things, but that's hardly important. Not given all the other things which spurred the need for adding this section and its subsections.

```
*** New in GPGME 1120
```

```
:PROPERTIES:  
:CUSTOM_ID: new-stuff-1-12-0  
:END:
```

There have been quite a number of additions to GPGME and the Python bindings to it since the last release of GPGME with versions 1.11.0 and 1.11.1 in April, 2018.

The bullet points of new additions are:

- an expanded section on [\[\[file:gpgme-python-howto#installation\]\[installing\]\]](#) and [\[\[file:gpgme-python-howto#snafu\]\[troubleshooting\]\]](#) the Python bindings.
- The release of Python 3.7.0; which appears to be working just fine with our bindings, in spite of intermittent reports of problems for many other Python projects with that new release.
- Python 3.7 has been moved to the head of the specified python versions list in the build process.
- In order to fix some other issues, there are certain underlying functions which are more exposed through the [\[\[file:gpgme-python-howto#howto-get-context\]\[gpg.Context\(\)\]\]](#), but ongoing documentation ought to clarify that or otherwise provide the best means of using the bindings. Some additions to `=gpg.core=` and the `=Context()=`, however, were intended (see below).
- Continuing work in identifying and confirming the cause of oft-reported [\[\[file:gpgme-python-howto#snafu-runtime-not-funtime\]\[problems installing the Python bindings on Windows\]\]](#).
- GSOC: Google's Surreptitiously Ordered Conscription ... erm ... oh, right; Google's Summer of Code. Though there were two hopeful candidates this year; only one ended up involved with the GnuPG Project directly, the other concentrated on an unrelated third party project with closer ties to one of the GNU/Linux distributions than to the GnuPG Project. Thus the Python bindings benefited from GSOC participant Jacob Adams, who added the `key_import` function; building on prior work by Tobias Mueller.
- Several new methods functions were added to the `gpg.Context()`, including: [\[\[file:gpgme-python-howto#howto-import-key\]\[key\\_import\]\]](#), [\[\[file:gpgme-python-howto#howto-export-key\]\[key\\_export\]\]](#), [\[\[file:gpgme-python-howto#howto-export-public-key\]\[key\\_export\\_minimal\]\]](#) and [\[\[file:gpgme-python-howto#howto-export-secret-key\]\[key\\_export\\_secret\]\]](#).
- Importing and exporting examples include versions integrated with Marcel Fest's recently released [\[\[https://github.com/Selfnet/hkp4py\]\[HKP for Python\]\]](https://github.com/Selfnet/hkp4py) module. Some [\[\[file:gpgme-python-howto#hkp4py\]\[additional notes on this module\]\]](#) are included at the end of the HOWTO.
- Instructions for dealing with semi-walled garden implementations like ProtonMail are also included. This is intended to make things a little easier when communicating with users of ProtonMail's services and should not be construed as an endorsement of said service. The GnuPG Project neither favours,



nor disfavours

ProtonMail and the majority of this deals with interacting with the ProtonMail keyserver.

- Semi-formalised the location where `[[file:gpgme-python-howto#draft-editions]][draft versions]` of this HOWTO may

periodically be accessible. This is both for the reference of others and testing the publishing of the document itself. Renamed this file at around the same time.

- The Texinfo documentation build configuration has been replicated from the parent project in order to make to maintain consistency with that project (and actually ship with each release).

- a reStructuredText (`=.rst=`) version is also generated for Python developers more used to and comfortable with that format as it is the standard Python documentation format and Python developers may wish to use it with Sphinx. Please note that there has been no testing of the reStructuredText version with Sphinx at all. The reST file was generated by the simple expedient of using `[[https://pandoc.org/][Pandoc]]`.

-

Added a new section for `[[file:gpgme-python-howto#advanced-use][advanced or experimental use]]`.

- Began the advanced use cases with `[[file:gpgme-python-howto#cython][a section]]` on using the module with `[[https://cython.org/][Cython]]`.

- Added a number of new scripts to the `=example/howto/=` directory; some of which may be in advance of their planned sections of the HOWTO (and some are just there because it seemed like a good idea at the time).

- Cleaned up a lot of things under the hood.

000

\*H

010 UDE1!0U

Deutsches Forschungsnetz10UDFN-PCA1.0,U%DFN Top Level Certification Authority1!0 \*H  
certify@pca.dfn.de0

981029180310Z

011231180310Z010 UDE1!0U

Deutsches Forschungsnetz10UDFN-PCA1.0,U%DFN Top Level Certification Authority1!0 \*H  
certify@pca.dfn.de0"0

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nskV\$2r#iA4H|\*/

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tD}L+~IWWD|eP&qH)

!1\p%,1.tIsmnQ,g-W)@\((t<kvm5j(d)9M\_KGQJ0:qTE 00 `HB0) `HBhttps://mystic.pca.dfn.de/0A

`HB42http://www.pca.dfn.de/dfnpca/policy/wwwpolicy.html08 `HB

+)The DFN Top Level Certification Authority0! `HBcgi/check-rev.cgi?0 `HB

dfnpca.cr10U00U0

\*H

^[:8\e7\*%QC?:/JVgWPUB

OgGqjGVxl50%<Pb18 z;t~r0U<A%3#1'8b"<iX"V!k"\*Q8&hAPI"3 00KUb&Qq'46\_{D[JZ!i<=T

/OF

Wenn Sie dies lesen können, ist es wohl nicht  
geheim genug.

1.13.1

This is gpgme.info, produced by makeinfo version 6.3 from gpgme.texi.

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INFO-DIR-SECTION GNU Libraries

START-INFO-DIR-ENTRY

\* GPGME: (gpgme). Adding support for cryptography to your program.

END-INFO-DIR-ENTRY

This file documents the GPGME library.

This is Edition 1.12.1-beta100, last updated 3 December 2018, of The  
GnuPG Made Easy Reference Manual, for Version  
1.12.1-beta100.

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Public License for more details.

Indirect:

gpgme.info-1: 1689

gpgme.info-2: 301885

Tag Table:

(Indirect)

Node: Top1689  
Node: Introduction9299  
Node: Getting Started10089  
Node: Features11550  
Node: Overview12862  
Node: Preparation13971  
Node: Header14968  
Node: Building the Source15715  
Node: Largefile Support (LFS)17859  
Node: Using Automake23275  
Node: Using Libtool25828  
Node: Library Version  
Check26190  
Node: Signal Handling32250  
Node: Multi-Threading33520  
Ref: Multi-Threading-Footnote-134936  
Node: Protocols and Engines35359  
Node: Engine Version Check38110  
Node: Engine Information40633  
Node: Engine Configuration44493  
Node: OpenPGP45797  
Node: Cryptographic Message Syntax46137  
Node: Assuan46450  
Node: Algorithms46824  
Ref: Algorithms-Footnote-147303  
Node: Public Key Algorithms47431  
Node: Hash Algorithms50033  
Node: Error Handling51247  
Node: Error Values53121  
Node: Error Sources58324  
Node: Error Codes60764  
Node: Error Strings65557  
Node: Exchanging Data67364  
Node: Creating Data Buffers69249  
Node: Memory Based Data Buffers69765  
Node: File Based Data Buffers73198  
Node: Callback Based Data Buffers76311  
Node: Destroying Data Buffers80502  
Node: Manipulating Data Buffers82009  
Node: Data Buffer I/O Operations82501  
Node: Data Buffer Meta-Data84874  
Node: Data Buffer Convenience89393  
Node: Contexts91613  
Node: Creating Contexts92799  
Node: Destroying Contexts93646  
Node: Result Management93985  
Node:

Context Attributes95566  
Node: Protocol Selection96733  
Node: Crypto Engine97779  
Node: Setting the Sender99668  
Node: ASCII Armor101181  
Node: Text Mode101810  
Node: Offline Mode102744  
Node: Pinentry Mode104242  
Node: Included Certificates106136  
Node: Key Listing Mode107582  
Node: Passphrase Callback112323  
Node: Progress Meter Callback115885  
Node: Status Message Callback117870  
Node: Context Flags119635  
Node: Locale125684  
Node: Additional Logs127276  
Node: Key Management129474  
Node: Key objects130702  
Node: Listing Keys144926  
Node: Information About Keys153579  
Node: Manipulating Keys154887  
Node: Generating Keys155457  
Node: Signing Keys173777  
Node: Exporting Keys177410  
Node: Importing Keys184349  
Ref: Importing Keys-Footer-1191752  
Node: Deleting Keys191880  
Node: Changing Passphrases194160  
Node: Changing TOFU Data195487  
Node: Advanced Key Editing197595  
Node: Trust Item Management200328  
Node: Listing Trust Items201364  
Node: Manipulating Trust Items203725  
Node: Crypto Operations204368  
Node:  
  Decrypt205632  
Node: Verify212946  
Node: Decrypt and Verify225666  
Node: Sign228521  
Node: Selecting Signers229085  
Node: Creating a Signature230491  
Node: Signature Notation Data235261  
Node: Encrypt237546  
Node: Encrypting a Plaintext237902  
Node: Miscellaneous252314  
Node: Running other Programs252726  
Node: Using the Assuan protocol254889  
Node: Checking for updates257687

Node: Run Control262504  
Node: Waiting For Completion263248  
Node: Using External Event Loops265373  
Node: I/O Callback Interface267345  
Node: Registering I/O Callbacks272585  
Node: I/O Callback Example274624  
Node: I/O Callback Example GTK+281249  
Node: I/O Callback Example GDK283038  
Node: I/O Callback Example Qt284680  
Node: Cancellation286968  
Node: UI Server Protocol289276  
Ref: UI Server Protocol-Footnote-1290711  
Node: UI Server Encrypt290830  
Node: UI Server Sign296188  
Node: UI Server Decrypt298541  
Node: UI Server Verify301885  
Node: UI Server Set Input Files305457  
Node: UI Server Sign/Encrypt Files306527  
Node: UI Server Verify/Decrypt  
Files308335  
Node: UI Server Import/Export Keys310211  
Node: UI Server Checksum Files311273  
Node: Miscellaneous UI Server Commands313491  
Ref: command SENDER315422  
Node: Debugging317124  
Node: Deprecated Functions318873  
Node: Library Copying344090  
Node: Copying372310  
Node: Concept Index410060  
Node: Function and Data Index425058

End Tag Table

Local Variables:

coding: utf-8

End:

hkp4py

requests

\input texinfo @c \*- texinfo -\*

@c %\*\*start of header

@setfilename what-was-new.info

@settitle What Was New in the GPGME Python Bindings and Documentation

@documentencoding utf-8

@documentlanguage en

@c %\*\*end of header

@finalout

@titlepage  
@title What Was New in the GPGME Python Bindings and Documentation  
@author Ben McGinnes  
@end titlepage

@contents

@ifnottex  
@node Top  
@top What Was New in the GPGME Python Bindings and Documentation  
@end ifnottex

@menu  
\* What Was New::

@detailmenu  
--- The Detailed Node Listing ---

What Was New

\* What Was New in GPGME 1120::

What Was New in GPGME 1120

\* New in GPGME 1120::

@end detailmenu  
@end menu

@node What Was New  
@chapter What Was New

@multitable {aaaaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}  
@item Version:  
@tab 0.0.1  
@item GPGME Version:  
@tab 1.13.0  
@item Author:  
@tab Ben McGinnes <ben@gnupg.org>  
@item Author GPG Key:  
@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D  
@item Language:  
@tab Australian English, British English  
@item  
xml:lang:  
@tab en-AU, en-GB, en  
@end multitable

The following are all the past `@emph{What's New}` sections for the Python Bindings HOWTO and other documentation.

`@menu`

`* What Was New in GPGME 1120::`

`@end menu`

`@node What Was New in GPGME 1120`

`@section What Was New in GPGME 1120`

The most obviously new point for those reading this guide is this section on other new things, but that's hardly important. Not given all the other things which spurred the need for adding this section and its subsections.

`@menu`

`* New in GPGME 1120::`

`@end menu`

`@node New in GPGME 1120`

`@subsection New in GPGME 1120`

There have been quite a number of additions to GPGME and the Python bindings to it since the last release of GPGME with versions 1.11.0 and 1.11.1 in April, 2018.

The bullet points of new additions are:

`@itemize`

`@item`

an expanded section on `@uref{gpgme-python-howto#installation, installing}` and `@uref{gpgme-python-howto#snafu, troubleshooting}` the Python bindings.

`@item`

The release of Python

3.7.0; which appears to be working just fine

with our bindings, in spite of intermittent reports of problems for many other Python projects with that new release.

`@item`

Python 3.7 has been moved to the head of the specified python versions list in the build process.

`@item`

In order to fix some other issues, there are certain underlying

functions which are more exposed through the `@uref{gpgme-python-howto#howto-get-context, gpg.Context()}`, but ongoing documentation ought to clarify that or otherwise provide the

best means of using the bindings. Some additions to `@samp{gpg.core}` and

the `@samp{Context()}`, however, were intended (see below).

`@item`

Continuing work in identifying and confirming the cause of oft-reported [gpgme-python-howto#snafu-runtime-not-funtime](#), problems installing the Python bindings on Windows}.

@item

GSOC: Google's Surreptitiously Ordered Conscriptio<sup>n</sup> <sup>erm</sup> oh, right; Google's Summer of Code. Though there were two hopeful candidates this year;

only one ended up involved with the GnuPG

Project directly, the other concentrated on an unrelated third party project with closer ties to one of the GNU/Linux distributions than to the GnuPG Project. Thus the Python bindings benefited from GSOC participant Jacob Adams, who added the `key@math{ _import }` function; building on prior work by Tobias Mueller.

@item

Several new methods functions were added to the `gpg.Context()`, including: [gpgme-python-howto#howto-import-key](#), `key@math{ _import }`}, [gpgme-python-howto#howto-export-key](#), `key@math{ _export }`}, [gpgme-python-howto#howto-export-public-key](#), `key@math{ _export }@math{ _minimal }`}} and

[gpgme-python-howto#howto-export-secret-key](#), `key@math{ _export }@math{ _secret }`}}.

@item

Importing and exporting examples include versions integrated with Marcel Fest's recently released <https://github.com/Selfnet/hkp4py>, HKP for Python} module. Some [gpgme-python-howto#hkp4py](#), additional notes on this module} are included at the end of the HOWTO.

@item

Instructions for dealing with semi-walled garden implementations like ProtonMail are also included. This is intended to make things a little easier when communicating with users of ProtonMail's services and should not be construed as an endorsement of said service. The GnuPG Project neither favours, nor disfavors ProtonMail and the majority of this deals with interacting with the ProtonMail keyserver.

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a reStructuredText (`@samp{.rst}`) version is also generated for Python developers more used

to and comfortable with that format as it is

the standard Python documentation format and Python developers may wish to use it with Sphinx. Please note that there has been no



testing of the reStructuredText version with Sphinx at all. The reST file was generated by the simple expedient of using `@uref{https://pandoc.org/, Pandoc}`.

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@item

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@item

Added a number of new scripts to the `@samp{example/howto/}` directory; some of which may be in advance of their planned sections of the HOWTO (and some are just there because it seemed like a good idea at the time).

@item

Cleaned up a lot of things under the hood.

@end itemize

@bye

Additional license notices for GPGME.                    - \*- org - \*-

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These notices all require that a copy of the notice be included in the accompanying documentation and be distributed with binary distributions of the code, so be sure to include this file along with any binary distributions derived from the GNU C Library.

\* MIT License

For files:  
- cJSON.c, cJSON.h

#+begin\_quote  
Copyright (c) 2009 Dave Gamble

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#+end\_quote

# \*- mode: org \*-

#+TITLE: Maintenance Mode

#+AUTHOR: Ben McGinnes

#+LATEX\_COMPILER: xelatex

#+LATEX\_CLASS: article

#+LATEX\_CLASS\_OPTIONS: [12pt]

#+LATEX\_HEADER: \usepackage{xltextra}

#+LATEX\_HEADER: \usepackage[margin=1in]{geometry}

#+LATEX\_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}

#+LATEX\_HEADER: \author{Ben McGinnes <ben@gnupg.org>}

\* Maintenance Mode from 2019

:PROPERTIES:

:CUSTOM\_ID: maintenance-mode

:END:

| Version: | 0.0.1 |  
| GPGME Version: | 1.13.0 |  
| Author: | Ben McGinnes <ben@gnupg.org> |  
| Author GPG Key: | DB4724E6FA4286C92B4E55C4321E4E2373590E5D |  
| Language: | Australian English, British English |  
| xml:lang: | en-AU, en-GB, en |

From the beginning of 2019 the Python bindings to GPGME will enter maintenance mode, meaning that new features will not be added and only bug fixes and security fixes will be made.

This also means that documentation beyond that existing at the end of 2018 will not be developed further except to correct errors.

Though use of these bindings appears to have been quite well received, there has been no indication of what demand there is, if any for either financial backing of the current Python bindings development or support contracts with g10code GmbH citing the necessity of including the bindings.

\*\* Maintainer from 2019 onward

:PROPERTIES:

:CUSTOM\_ID: maintenance-mode-bm  
:END:

How does this affect the position of GnuPG Python Bindings Maintainer?

Well, I will remain as maintainer of the bindings; but without funding for that position, the amount of time I will be able to dedicate solely to this task will be limited and reduced to volunteered time. As with all volunteered time and effort in free software projects, this will be subject to numerous external imperatives.

\*\* Using the Python Bindings from 2019 and beyond  
:PROPERTIES:  
:CUSTOM\_ID:  
maintenance-mode-blade-runner  
:END:

For most, if not all, Python developers using these bindings; they will continue to just work the same as they always have. Expansions of GPGME itself are usually handled by SWIG with the existing code and thus bindings are generated properly when the bindings are installed alongside GPGME and when the latter is built from source.

In the rare circumstances where that is not enough to address some new addition to GPGME, then that is a bug and thus subject to the maintenance mode provisions (i.e. it will be fixed following a bug report being raised and your humble author will need to remember where the timesheet template was filed, depending on how many years off such an event is).

All the GPGME functionality will continue to be accessible via the lower level, dynamically generated methods which match the GPGME C documentation. While the more intuitively Pythonic higher level layer already covers the vast majority of functionality people require with key generation, signatures, certifications (key signing), encryption, decryption, verification, validation, trust levels and so on.

Any wanted features lacking in the Python bindings are usually lacking because they are missing from GPGME itself (e.g. revoking keys via the API) and in such cases they are usually deliberately excluded. More discussion of these issues can be found in the archives of the [\[\[https://lists.gnupg.org/mailman/listinfo/gnupg-devel\]\]](https://lists.gnupg.org/mailman/listinfo/gnupg-devel) [gnupg-devel mailing list].

Any features existing in the dynamically generated layer for which people want a specific, higher level function included to make it more Pythonic (e.g. to avoid needing to learn or memorise cryptographic

mode values or GnuPG status code numbers), would be a feature request and /not/ a bug.

It is still worthwhile requesting it, but the addition of such a feature would not be guaranteed and provided on a purely volunteer basis. Expediting such a request would require funding that request.

Those

with a commercial interest in expediting such a feature request already know how to [<https://gnupg.org/cgi-bin/procdonate.cgi?mode=preset>][expedite it] (use the message field to state what feature is being requested).

\*\* Documentation formats

:PROPERTIES:

:CUSTOM\_ID: docs

:END:

The documentation has been written in Org mode for GNU Emacs, with both Texinfo and reStructuredText formats generated from that. The Texinfo files are intended for use with the rest of the GnuPG documentation; while the reStructuredText files are intended for use with Docutils and Sphinx, as with other Python projects.

\*\*\* Cautionary Notes regarding Sphinx and EPUB

:PROPERTIES:

:CUSTOM\_ID: sphinx-made-epubs-suck

:END:

Though Python's Docutils in conjunction with Sphinx is capable of generating some very useful HTML sites, as proven by [<https://readthedocs.org/>][Read the Docs] and the [<https://docs.python.org/>][Python documentation]], there are a number of output formats it does not

handle well. At the top of the list of things it manages to break so atrociously as to be embarrassing is the [<http://idpf.org/epub/>][EPUB 3] format.

The automatically generated EPUB of the CPython documentation always contains hundreds of validation errors and even the modest amount of documentation here [<https://files.au.adversary.org.s3.amazonaws.com/crypto/gpgme-python/rst/epub/GPGMEPythonBindings.epub>][produced a file] with approximately thirty validation errors. As the volume of documentation content increases, so does the induced errors. Whereas Texinfo doesn't produce EPUB output at all, nor does Org-mode.

Should there ever be genuine demand for this format, lodge a [<https://dev.gnupg.org/maniphest/task/edit/form/4/>][feature

request]] case marked for [[https://dev.gnupg.org/p/BenM/][my]] attention. The means of generating such files flawlessly is already available, but is not yet part of the GnuPG build system. Nor is it integrated with a means of converting Org

mode input files to the relevant base format automatically, as can already be done when converting Org to reStructuredText or Org to Texinfo. As a certain amount of work would be required to get it done, there would need to be clear demand for that work to be done.

Just GNU it!

```
(11:private-key(3:dsa(1:p129:eC_L&$2,6tx.gh1VirIqI9
,^g3.$DveUvX1'oIj)(1:q21: #UfK2z(tuVG)(1:g128:zu^Rab;qeQQA B?/6/aspfE/
gx!Mr0YY*oMrJc2xWG:.r6)(1:y128:Ufj^@oEn4j#QrRq" RcEa E/}4C[3A
5+~~.#!+
)W&5dij)(1:x21:` )))
```

2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2011-10-25 Marcus Brinkmann <marcus@g10code.com>

- \* m4/pth.m4: Removed.
- \* configure.ac: Remove check for pth and automake conditional HAVE\_PTH.

2011-06-16 Marcus Brinkmann <marcus@g10code.com>

Release 1.3.1

- \* configure.ac: Set LT version to C19/A8/R0.

2011-05-06 Marcus Brinkmann <marcus@g10code.com>

- \* Makefile.am (SUBDIRS): Remove complus.
- \* configure.ac (AC\_CONFIG\_FILES): Remove complus/Makefile. (BUILD\_COMPLUS): Remove AM\_CONDITIONAL.
- \* complus/: Remove very old and stale component.
- \* acinclude.m4 (GNUPG\_FIX\_HDR\_VERSION): Remove.

2011-04-14 Werner Koch <wk@g10code.com>

- \* configure.ac: Require automake 1.11.

2011-04-06 Werner Koch <wk@g10code.com>

\* autogen.sh (--build-w32):

Support option --build-w64.

\* configure.ac (HAVE\_W64\_SYSTEM): Define.

(INSERT\_\_TYPEDEFS\_FOR\_GPGME\_H): New.

(GPGME\_CONFIG\_HOST): New.

2011-02-02 Marcus Brinkmann <mb@g10code.com>

\* configure.ac (NEED\_LIBASSUAN\_VERSION): Bump to 2.0.2 for system hooks.

2010-12-30 Werner Koch <wk@g10code.com>

\* configure.ac: Support a git revision.

2010-11-03 Werner Koch <wk@g10code.com>

\* configure.ac (AC\_CHECK\_HEADERS): Check for sys/types.h and sys.stat.h.

2010-11-02 Werner Koch <wk@g10code.com>

\* configure.ac (AC\_CHECK\_HEADERS): Check for sys.time.h.

2010-08-19 Werner Koch <wk@g10code.com>

\* configure.ac (AH\_BOTTOM): Define GPG\_ERR\_ENABLE\_ERRNO\_MACROS.

2010-05-12 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Check for setlocale.

2010-05-07 Werner Koch <wk@g10code.com>

\* configure.ac: Change checks to always require libassuan.

2010-05-07 Marcus Brinkmann <marcus@g10code.de>

\* autogen.sh: Update the thing.

\* configure.ac: Check for locale.h.

2010-05-06

Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Detect Windows CE.

(HAVE\_W32CE\_SYSTEM): New symbol and automake conditional.

\* ltmain.sh, m4/libtool.m4: Patch so that it works for Windows CE.

\* configure.ac: Require libpgp-error 1.8.

2010-03-15 Werner Koch <wk@g10code.com>

\* configure.ac (emacs\_local\_vars\_begin)  
(emacs\_local\_vars\_read\_only, emacs\_local\_vars\_end): New.

2010-01-22 Werner Koch <wk@g10code.com>

\* autogen.sh (--build-w32): Add --with-libassuan-prefix.

2010-01-11 Marcus Brinkmann <marcus@g10code.de>

Release 1.3.0.

2009-12-22 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Do not use echo -n. Test for \_\_thread.

2009-12-17 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Make largefile check more robust.

2009-12-10 Werner Koch <wk@g10code.com>

\* configure.ac: Check for getgid and getegid.

2009-12-08 Marcus Brinkmann <marcus@g10code.de>

Update to libtool 2.2.6a.

\* configure.ac: Invoke AC\_CONFIG\_MACRO\_DIR.

(AC\_LIBTOOL\_WIN32\_DLL,

AC\_LIBTOOL\_RC): Replace by ...

(LT\_PREREQ, LT\_INIT, LT\_LANG): ... these.

\* config.guess, config.sub, install-sh, ltmain.sh, m4/libtool.m4:

Updated to libtool 2.2.6a.

\* m4/ltoptions.m4, m4/ltsugar.m4, m4/ltversion.m4,

m4/lt~obsolete.m4: New files from libtool 2.2.6a.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Activate UIserver if FD passing is enabled and  
Assuan is available.

2009-10-30 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Check for argp.h and error\_t.

2009-10-26 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (NEED\_GPG\_VERSION\_DEFAULT): Bump to 1.4.0 as 1.3.0 was development versions only.

2009-10-22 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Add support for G13.

2009-10-20 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (AC\_CONFIG\_FILES): Remove assuan/Makefile.

2009-10-20 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Replace internal libassuan by external libassuan.

\* m4/libassuan.m4:

New file.

\* Makefile.am (assuan): Remove variable.

(SUBDIRS): Remove \${assuan}.

\* assuan/: Removed.

2009-06-22 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Add AC\_TYPE\_UINTPTR\_T.

\* assuan/assuan.h [\_ASSUAN\_IN\_GPGME\_BUILD\_ASSUAN]: Declare \_gpgme\_io\_connect.

2009-06-18 Marcus Brinkmann <marcus@g10code.de>

Released GPGME 1.2.0.

\* configure.ac (my\_version): Set to 1.2.0.

(LIBGPGME\_LT\_CURRENT, LIBGPGME\_LT\_AGE): Bump.

(LIBGPGME\_LT\_REVISION): Reset.

2009-05-05 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Add infrastructure for compile time check of \_FILE\_OFFSET\_BITS.

2009-04-19 Moritz <moritz@gnu.org>

\* Makefile.am (DISTCHECK\_CONFIGURE\_FLAGS): Specify --with-gpg.

2009-03-06 Marcus Brinkmann <marcus@g10code.de>



\* assuan/: Update to libassuan SVN 2009-03-06.

2009-01-26 Werner Koch <wk@g10code.com>

\* configure.ac (AC\_CONFIG\_FILES): Add tests/opassuan/Makefile.

2008-12-08 Marcus Brinkmann <marcus@g10code.de>

Release GPGME

1.1.8.

\* configure.ac: Bump API revision.

2008-11-03 Marcus Brinkmann <marcus@g10code.com>

\* configure.ac: Replace gpgme paths with src.

\* gpgme: Move to ...

\* src: ... this new directory.

2008-10-20 Werner Koch <wk@g10code.com>

\* configure.ac (AC\_CONFIG\_FILES): Add gpgme.h.

(GNUPG\_FIX\_HDR\_VERSION): Remove.

2008-10-17 Marcus Brinkmann <marcus@g10code.com>

Release GPGME 1.1.7.

\* configure.ac (LIBGPGME\_LT\_REVISION): Bump for release.

2008-09-19 Moritz <moritz@gnu.org>

\* configure.ac: Remove bogus "esac".

2008-09-16 Marcus Brinkmann <marcus@g10code.com>

\* configure.ac (\_XOPEN\_SOURCE) [apple-darwin]: Define it.

2008-07-04 Werner Koch <wk@g10code.com>

\* config.guess, config.sub: Update to 2007-11-19. Also update missing et al scripts.

2008-04-01 Werner Koch <wk@g10code.com>

\* configure.ac (AC\_INIT): Fix quoting.

2008-01-30 Marcus Brinkmann <marcus@g10code.de>

- \* configure.ac: Bump required version of automake up to 1.10.
- \* autogen.sh: Fix  
aclocal check.

2008-01-04 Marcus Brinkmann <marcus@g10code.de>

Release GPGME 1.1.6.

- \* configure.ac: Support gpgconf.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

- \* assuan-pipe-connect.c (pipe\_connect\_gpgme): Do not close process handle here. Use this function also on Unix systems.

- \* assuan-pipe-connect.c (pipe\_connect\_gpgme): Fix last change.

- \* assuan-pipe-connect.c (pipe\_connect\_gpgme): New function, use it if `_ASSUAN_IN_GPGME_BUILD_ASSUAN`.

2007-09-17 Werner Koch <wk@g10code.com>

- \* configure.ac: Use the svn version magic.

2007-09-07 Marcus Brinkmann <marcus@g10code.de>

- \* configure.ac: Check for C++, Qt and support `--enable-w32-qt`.
- \* m4/pkg.m4: New file.

2007-08-21 Marcus Brinkmann <marcus@g10code.de>

- \* configure.ac (`--enable-w32-glib`): Use `--enableval`, not `--withval`.

2007-07-16 Marcus Brinkmann <marcus@g10code.de>

- \* assuan/assuan-socket.c (`_assuan_close`): Always use `close()`.
- \* assuan/assuan.h (`_gpgme_io_close`): New prototype.  
(`close`): New  
macro, define as `_gpgme_io_close`.

2007-07-13 Marcus Brinkmann <marcus@g10code.de>

- \* assuan/assuan-io.c (`_assuan_simple_read`, `_assuan_simple_write`):  
Always use `read/write` (which means `_gpgme_io_read` and  
`_gpgme_io_write`).

2007-07-09 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.5.

\* configure.ac (LIBGPGME\_LT\_REVISION): Bump for release.

2007-07-08 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (GPGSM\_DEFAULT) [\*-mingw32\*]: Initialize it.  
(HAVE\_ASSUAN\_H): Set to 1 if we have it.  
(funopen): Use AC\_REPLACE\_FUNCS.  
(USE\_DESCRIPTOR\_PASSING): Define to 1 if we have it. Do not  
define it at all if we don't.  
(NETLIBS) [have\_w32\_system]: Add -lws2\_32.  
(DIRSEP\_C, DIRSEP\_S, EXPSEP\_C, EXPSEP\_S, PATHSEP\_S)  
[HAVE\_DOSISH\_SYSTEM]: Remove definitions.

\* assuan/assuan.h (\_assuan\_funopen): Define to \_gpgme\_funopen.  
\* assuan/funopen.c: Move to ../gpgme/funopen.c.  
\* assuan/Makefile.am (libassuan\_la\_SOURCES): Remove funopen.c.

2007-07-04 Marcus Brinkmann <marcus@g10code.de>

\*  
assuan/Makefile.am (INCLUDES): Include \$(top\_srcdir)/gpgme.  
\* assuan/assuan.h: Include <ath.h> instead of trying to duplicate  
the definitions.

\* assuan/: Update files to 2007-07-04 version of assuan.

\* autogen.sh: Use = not == in test.

2007-03-05 Werner Koch <wk@g10code.com>

Released 1.1.4.

\* configure.ac (LIBGPGME\_LT\_REVISION): Bump for release.

\* autogen.sh: New option --force.

2007-01-29 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.3.

\* configure.ac (LIBGPGME\_LT\_REVISION): Bump for release.

2007-01-26 Werner Koch <wk@g10code.com>

\* configure.ac: Changed gpg and gpgsm version checks to work with arbitrary names of the gpg binary. New option --disable-gpg-test and --disable-gpgsm-test.

2007-01-09 Werner Koch <wk@g10code.com>

\* configure.ac (NEED\_GPG\_VERSION, NEED\_GPGSM\_VERSION): Must define after it may have been changed by an option.

2007-01-08 Werner Koch <wk@g10code.com>

\* configure.ac: Require gpg-error 1.4 due to the use of gpg\_error\_from\_syserror.  
(HAVE\_ASSUAN\_H):  
New.

2007-01-05 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Add options --with-gpg-version and --with-gpgsm-version to allow overriding the minimum version requirements.

2006-12-17 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Fix two typos in last change.

2006-12-03 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Use descriptor passing only if --enable-fd-passing is provided.

\* configure.ac: Add check for use of descriptor passing.

2006-11-29 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (NEED\_GPG\_VERSION): Bump to 1.3.0.

2006-09-19 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Turn stpcpy into a replacement function.  
Check for unistd.h and add setenv as replacement function.

2006-07-29 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Check for network libraries and set NETLIBS.

2006-07-06 Marcus Brinkmann <marcus@g10code.de>

\* lang, lang/cl: New subdirectories.

\*

lang/Makefile.am, lang/README: New files.

\* configure.ac (AC\_CONFIG\_FILES): Add lang/Makefile,  
lang/cl/Makefile and lang/cl/gpgme.asd.

\* Makefile.am (SUBDIRS): Add lang.

2006-03-02 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (LIBGPGME\_LT\_REVISION): Bump for release.

2006-02-22 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.1.

\* configure.ac (LIBGPGME\_LT\_CURRENT, LIBGPGME\_LT\_AGE): Bump for  
release.

(LIBGPGME\_LT\_REVISION): Reset to 0 for release.

2006-01-05 Werner Koch <wk@g10code.com>

\* configure.ac: Test for inline feature.

(AH\_BOTTOM): New to define the pure attribute.

2006-01-03 Werner Koch <wk@g10code.com>

\* configure.ac: Append SVN revision to the version.

2005-11-18 Werner Koch <wk@g10code.com>

\* configure.ac (BUILD\_REVISION): New.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Add support for --enable-w32-glib (disabled by  
default). Invoke AM\_PATH\_GLIB\_2\_0.

2005-11-16 Werner Koch <wk@g10code.com>

\* configure.ac

(CFLAGS) [W32]: Make sure that -mms-bitfields are used.

2005-11-15 Werner Koch <wk@g10code.com>

\* configure.ac: Create BUILD\_FILEVERSION from SVN Revision.

\* autogen.sh [W32]: Build shared and static versions of the library.

2005-10-20 Marcus Brinkmann <marcus@g10code.de>

\* w32-dll/ChangeLog, w32-dll/build-dll, w32-dll/gpgme.def: Remove files.

\* configure.ac: Instead checking for windres and dlltool, invoke AC\_LIBTOOL\_WIN32\_DLL and AC\_LIBTOOL\_RC.

\* src/Makefile.am [HAVE\_W32\_SYSTEM]: Use libtool, which simplifies the rules.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.0.

\* configure.ac (LIBGPGME\_LT\_CURRENT, LIBGPGME\_LT\_AGE): Bump for release.

(LIBGPGME\_LT\_REVISION): Reset to 0 for release.

2005-09-12 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (HAVE\_PTH): Don't add \$PTH\_CFLAGS to \$CFLAGS here.

2005-08-26 Werner Koch <wk@g10code.com>

\* configure.ac (SEPCONSTANTS): New to define DIRSEP\_C et al.

2005-08-19 Werner Koch <wk@g10code.com>

\*

configure.ac [W32]: Create values for versioninfo.rc and list substitute versioninfo.rc.

\* configure.ac: Define ENABLE\_GPGSM.

2005-08-08 Werner Koch <wk@g10code.com>

\* configure.ac (stpcpy): Changed from replace to test.

2005-03-24 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (AH\_BOTTOM): Removed.

2005-03-09 Werner Koch <wk@g10code.com>

\* acinclude.m4 (GNUPG\_CHECK\_VA\_COPY): Assume no when cross-compiling.

\* Makefile.am (EXTRA\_DIST): Include autogen.sh

\* autogen.sh: Added the usual code to build for W32 (--build-w32).

\* configure.ac: Fixed the mingw32 host string, removed OS/2 stuff.

(HAVE\_DRIVE\_LETTERS): Removed.

(HAVE\_W32\_SYSTEM): Added.

(AC\_GNU\_SOURCE): New to replace the identical AH\_VERBATIM.

(AH\_BOTTOM): Added.

2004-12-28 Werner Koch <wk@g10code.com>

Released 1.0.2.

\* Makefile.am (AUTOMAKE\_OPTIONS): Build bzip 2 version.

(ACLOCAL\_AMFLAGS): Add -I m4.

\* configure.ac: Require automake 1.9.3 and autoconf 2.59.

\* acinclude.m4:

Changed quoting for automake 1.9.

\* README: Use SHA1 instead of MD5.

2004-12-11 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Replace ttyname\_r if it doesn't exist (and warn in that case).

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

\* README: Refer to COPYING.LESSER and "each file" instead of COPYING.

\* COPYING.LESSER: New file.

\* gpgme.spec.in (%doc): Add COPYING.LESSER.

\* acinclude.m4, configure.ac, Makefile.am: Change license to LGPL 2.1 or later.

\* TODO: Add copyright notice.

\* README.CVS: Likewise.

\* configure.ac (GPGSM\_VERSION): Fix filter to get it.

2004-10-22 Marcus Brinkmann <marcus@g10code.de>

Released 1.0.1.

\* configure.ac (LIBGPGME\_LT\_REVISION): Bump up to 2.

(AC\_INIT): Set version to 1.0.1.

\* configure.ac: Set HAVE\_GPGSM to true only if \$GPGSM is not "no".

2004-09-30 Marcus Brinkmann <marcus@g10code.de>

Released 1.0.0.

\* configure.ac (LIBGPGME\_LT\_REVISION): Bump up to 1.  
(AC\_INIT): Set version to 1.0.0.

\* Makefile.am  
(EXTRA\_DIST): Remove README-alpha.  
\* README-alpha: Remove file.

2004-09-17 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Disable AC\_CONFIG\_MACRO\_DIR for now.

2004-09-14 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Improve diagnostics with version check.

\* configure.ac: Print diagnostics about found thread libraries at  
the end. Check for the versions of GPG and GPGSM and print the  
found versions at the end.  
(HAVE\_GPGSM): Do not require GPGSM to exist and be readable.  
(AC\_CONFIG\_MACRO\_DIR): Invoke with argument m4.

\* acinclude.m4: Add copyright notice.  
(jm\_GLIBC21, AM\_PATH\_GPG\_ERROR, \_AC\_PTH\_ERROR, \_AC\_PTH\_VERBOSE,  
AC\_CHECK\_PTH): Removed.

2004-06-23 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Check for <sys/uio.h>.

2004-06-08 Marcus Brinkmann <marcus@g10code.de>

Released 0.9.0.

\* configure.ac (AC\_INIT): Set version number to 0.9.0.  
(LIBGPGME\_LT\_CURRENT, LIBGPGME\_LT\_AGE): Bump up by one.  
(LIBGPGME\_LT\_REVISION): Reset to zero.

2004-05-21

Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (GPGME\_CONFIG\_API\_VERSION): New variable,  
substitute it.

2004-04-29 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.7.



\* configure.ac (LIBGPGME\_LT\_REVISION): Bump it up.

2004-04-02 Thomas Schwinge <schwinge@nic-nac-project.de>

\* autogen.sh: Added ACLOCAL\_FLAGS.

2004-04-06 Werner Koch <wk@gnupg.org>

Released 0.4.6.

\* config.guess, config.sub, ltmain.sh: Updated to those from libtools 1.5.4.

2004-03-07 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.5.

\* configure.ac (NEED\_GPGSM\_VERSION): Bump up to 1.9.6.

\* Makefile.am (EXTRA\_DIST): Remove autogen.sh and README.CVS.

2004-02-18 Werner Koch <wk@gnupg.org>

\* configure.ac: Make the check for funopen fail with just a warning.

2004-02-11 Werner Koch <wk@gnupg.org>

\* autogen.sh (check\_version): Removed bashism and simplified.

2004-02-10 Werner Koch <wk@gnupg.org>

\* configure.ac: Fixed funopen test change.

2004-02-06 Moritz Schulte

<mo@g10code.com>

\* configure.ac: Fix funopen replacement mechanism.

2004-01-31 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Add invocation of AC\_SYS\_LARGEFILE, AC\_TYPE\_OFF\_T and AC\_FUNC\_FSEEKO.

2004-01-12 Werner Koch <wk@gnupg.org>

Released 0.4.4.

\* configure.ac: Bumbed LT\_Revision; now at C12/A1/R1.  
(NEED\_GPGSM\_VERSION): Set to 1.9.3.  
(min\_automake\_version): Added.  
\* README.CVS: New.  
\* Makefile.am (EXTRA\_DIST): Added README.CVS.  
\* autogen.sh: Updated.

2003-11-19 Werner Koch <wk@gnupg.org>

\* acinclude.m4: Add AM\_PATH\_GPG\_ERROR.  
\* configure.ac: Check for timegm. Made warning messages more prominent.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.3.

\* configure.ac (LIBGPGME\_LT\_CURRENT, LIBGPGME\_LT\_AGE): Bump up by 1.  
(LIBGPGME\_LT\_REVISION): Set to 0.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Require libpgp-error 0.5.  
  
\* acinclude.m4: Remove libtool cruft, add jm\_GLIBC21.  
\* configure.ac: Add check for  
getenv\_r, and call jm\_GLIBC21.  
Define HAVE\_THREAD\_SAFE\_GETENV if appropriate.

2003-09-03 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Remove GPGME\_CONFIG\_LIBS and GPGME\_CONFIG\_CFLAGS.

2003-09-02 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Move invocation of AC\_CANONICAL\_HOST up to  
suppress warning by autoconf.

2003-08-30 Robert Schiele <rschiele@uni-mannheim.de>

\* gpgme.spec.in: % {\_infodir}/dir is not packaged,  
remove to prevent checking failure.

2003-08-18 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: If building Assuan, check for funopen and  
fopencookie, and make isascii, putc\_unlocked and memrchr

replacement functions.

(AM\_PATH\_GPG\_ERROR): Require 0.3.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (AC\_INIT): Bump version to 0.4.3.

2003-07-30 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (LIBGPGME\_LT\_REVISION): Bump up to 1.

Released 0.4.2.

2003-07-08 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac:

Complain if libgpg-error is not found.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (AC\_INIT): Bump version to 0.4.2.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (LIBGPGME\_LT\_CURRENT): Bump up to 11.

\* configure.ac: Use AM\_PATH\_GPG\_ERROR.

\* configure.ac: Check for libgpg-error. Define  
GPG\_ERR\_SOURCE\_DEFAULT.

2003-05-26 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (NEED\_GPG\_VERSION): Bump up to 1.2.2.

2003-05-18 Marcus Brinkmann <marcus@g10code.de>

In all files, replace the Gpgme\* type names with the new gpgme\_\*  
type names.

2003-02-01 Marcus Brinkmann <marcus@g10code.de>

\* assuan/: Update files to 2002-11-10 version of assuan.

2003-01-29 Marcus Brinkmann <marcus@g10code.de>

\* bonobo/gpgme.c, bonobo/main.c, bonobo/main.h, bonobo/Makefile,  
bonobo/Makefile.am, bonobo/Makefile.in: Dead files removed.

\* configure.ac: Remove automake conditional BUILD\_BONOBO  
(AC\_CONFIG\_FILES): Remove bonobo/Makefile.

\*

Makefile.am (bonobo): Remove variable.  
(SUBDIRS): Remove \${bonobo}.

\* configure.ac: Remove all uses of GNUPG\_CHECK\_TYPEDEF, for byte,  
ushort, ulong, u16 and u32.

\* acinclude.m4 (GNUPG\_CHECK\_TYPEDEF): Remove macro.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: New conditional HAVE\_LD\_VERSION\_SCRIPT.  
Call AC\_CANONICAL\_HOST, use host instead target.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Bump up to 0.4.1.

Released 0.4.0.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

\* autogen.sh (automake\_vers): Require 1.7 (really 1.7.1) for the  
conditional source distribution bug fix.

2002-12-08 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (LIBGPGME\_LT\_CURRENT): Increase by one.  
(LIBGPGME\_LT\_AGE, LIBGPGME\_LT\_REVISION): Set to 0.

2002-11-28 Marcus Brinkmann <marcus@g10code.de>

\* NEWS: Add note about moving "gpgmeplug" to the "cryptplug"  
package.

\* README: Remove instructions related to "gpgmeplug".

\* configure.ac:

Remove enable option "gpgmeplug" and automake  
conditional BUILD\_GPGMEPLUG, as well as the status info about it.  
(GPGMEPLUG): Remove variable.

\* Makefile.am (gpgmeplug): Remove variable.

(SUBDIRS): Remove \${gpgmeplug}.

\* cryptplug.h, gpgme-openpgp.c, gpgmeplug.dox, gpgme-smime.c,  
Makefile.am, gpgmeplug.c, ChangeLog: Files removed.

2002-11-22 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Disable GPGSM for all dosish systems.

2002-10-12 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Add automake conditional HAVE\_GPGSM.

2002-10-08 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (AC\_INIT): Bump version up to 0.4.0.

(NEED\_GPG\_VERSION): Bump up to 1.2.0.

(NEED\_GPGSM\_VERSION): Bump up to 0.9.0.

\* README: Update version numbers.

\* NEWS: Start entry for 0.4.0.

2002-09-20 Werner Koch <wk@gnupg.org>

Released 0.3.11.

\* configure.ac: Bump up LIBGPGME\_LT\_REVISION.

\* configure.ac (AC\_CHECK\_HEADERS): Check for sys/select.h.

2002-09-04 Marcus Brinkmann

<marcus@g10code.de>

\* autogen.sh (autoconf\_vers): Bump up to 2.53 to get the @&t@  
quadrigraph. Always cutting the edge!

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Create and substitute LTLIBOBS.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

Released 0.3.10.

\* NEWS: Update for 0.3.9 release.

\* configure.ac: Bump up LIBGPGME\_LT\_REVISION.

2002-08-29 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.spec.in: Changed user name in Wojciech Polak's email  
address from ghostface to polak per request by himself.

2002-08-28 Werner Koch <wk@gnupg.org>

\* acinclude.m4 (GNUPG\_CHECK\_VA\_COPY): New.

\* configure.ac: Use it.

2002-08-23 Werner Koch <wk@gnupg.org>

\* configure.ac (GPGME\_CONFIG\_CFLAGS): Renamed from GPGME\_CFLAGS and removed the libpath because it is set by the config script.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Bump version number to 0.3.10.

\* NEWS: Add template for development version.

2002-08-21

Marcus Brinkmann <marcus@g10code.de>

Released 0.3.9.

\* NEWS: Update for 0.3.9 release.

\* Makefile.am (EXTRA\_DIST): Add gpgme.spec.in.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

\* jnlib/argparse.c, jnlib/argparse.h, jnlib/ChangeLog, jnlib/dotlock.c, jnlib/dotlock.h, jnlib/libjnlib-config.h, jnlib/logging.c, jnlib/logging.h, jnlib/Makefile.am, jnlib/mischelp.h, jnlib/README, jnlib/stringhelp.c, jnlib/stringhelp.h, jnlib/strlist.c, jnlib/strlist.h, jnlib/types.h, jnlib/xmalloc.c, jnlib/xmalloc.h: Remove files.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

\* Makefile.am (SUBDIRS): Remove jnlib.

\* configure.ac: Don't check for unsigned short or unsigned long.

Don't check for memicmp, strtwr, strtoul, memmove, stricmp.

Make stpcpy a replaced function.

Don't define HAVE\_JNLIB\_LOGGING.

Don't generate jnlib/Makefile.

2002-07-02 Werner Koch <wk@gnupg.org>

\* configure.ac: Bumped version number to 0.3.9; add a comment on when to change it.

\* gpgme.spec.in:

New. Contributed by Wojciech Polak.

\* Makefile.am (dist-hook): New.

\* AUTHORS: Added Wojciech and bug reporting addresses.

2002-06-25 Werner Koch <wk@gnupg.org>

Released 0.3.8.

\* configure.ac: Bumbed LT version to 9/3/0.  
(NEED\_GPGSM\_VERSION): Need 0.3.8 due to fixed export command.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

Released 0.3.7.

\* configure.ac (AC\_INIT): Set version to 0.3.7.  
(LIBGPGME\_LT\_REVISION): Add one.

\* README: Document version requirement correctly.

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

\* acinclude.m4: Fix Pth check so that it doesn't error out if pth  
is not found.

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Add checks for Pth and pthreads.  
\* acinclude.m4: Add slightly hacked check for pth (seems to be an  
autoconf version problem).

2002-05-21 Werner Koch <wk@gnupg.org>

\* configure.ac (NEED\_GPGSM\_VERSION): We need gpgsm 0.3.7.

2002-05-03 Werner Koch <wk@gnupg.org>

Released 0.3.6.

2002-04-05

Marcus Brinkmann <marcus@g10code.de>

\* acconfig.h: File removed.  
\* configure.ac (NEED\_GPG\_VERSION): Add description.  
(NEED\_GPGSM\_VERSION): Likewise.  
(HAVE\_DOSISH\_SYSTEM): Likewise.  
(HAVE\_DRIVE\_LETTERS): Likewise.  
(GPG\_PATH): Likewise.  
(GPGSM\_PATH): Likewise.  
\* acinclude.m4 (GNUPG\_CHECK\_TYPEDEF): Likewise.

2002-04-01 Werner Koch <wk@gnupg.org>

Released 0.3.5.

2002-03-17 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Add automake conditional HAVE\_DOSISH\_SYSTEM.

2002-03-04 Werner Koch <wk@gnupg.org>

\* configure.ac: Bumbed version to 0.3.4-cvs to continue development.

Released 0.3.4.

\* configure.ac: Bumbed LT version numbers to (7,1,0), requires  
gpgsm 0.3.1.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (AC\_INIT): Change version number to snapshot CVS  
version.

2002-02-13 Werner Koch <wk@gnupg.org>

\* configure.ac (vasprintf,fopencookie): Add checks.

2002-02-12 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (AC\_INIT):

Bump version to 0.3.3.

\* jnlib/Makefile.am: Revert to older version that includes xmalloc  
but not dotlock and some other files. Reported by Stphane  
Corthsy.

2002-02-10 Marcus Brinkmann <marcus@g10code.de>

\* Released 0.3.2.

\* configure.ac (AC\_INIT): Bump version to 0.3.2.

\* jnlib/libjnlibconfig.h: Revert to older version that doesn't  
expect libgcrypt. Reported by Jose Carlos Garcia Sogo  
<jsogo@debian.org>.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

\* Released 0.3.1.

\* configure.ac (LIBGPGME\_LT\_CURRENT): Bump it up to 6!

(NEED\_GPGSM\_VERSION): Bump it up to 0.3.0!



(AC\_INIT): Bump version to 0.3.1

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (HAVE\_JNLIB\_LOGGING): Define always for assuan.

2001-12-19 Werner Koch <wk@gnupg.org>

\* configure.ac (VERSION,PACKAGE): Defined and subst. Used for AM\_INIT\_AUTOMAKE and moved all version number more to the top.

2001-12-18 Marcus Brinkmann <marcus@g10code.de>

\* autogen.sh (libtool\_vers):

Bump to 1.4.

\* configure.ac (LIBGPGME\_LT\_CURRENT): Increment.

(LIBGPGME\_LT\_AGE): Reset.

Improve comment.

Fix wrong comment character.

2001-12-18 Werner Koch <wk@gnupg.org>

\* acinclude.m4 (GNUPG\_FIX\_HDR\_VERSION): Fixed for new automake.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (GPG): Substitute this variable.

(GPGSM): Likewise.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (AC\_CONFIG\_FILES): Add tests/gpg/Makefile and tests/gpgsm/Makefile.

2001-11-21 Marcus Brinkmann <marcus@g10code.de>

\* Makefile.am (gpgmeplug): New variable, set to gpgmeplug if [BUILD\_GPGMEPLUG].

\* configure.ac (AC\_CONFIG\_FILES): Add gpgmeplug/Makefile. Support --enable-gpgmeplug.

2001-11-21 Marcus Brinkmann <marcus@g10code.de>

\* autogen.sh: Tighten version dependencies.

2001-11-20 Marcus Brinkmann <marcus@g10code.de>

\* Makefile.am (SUBDIRS): Support building the assuan library (currently if GPGSM\_PATH is set)..  
\* configure.ac: Support building the assuan library.  
\* assuan: New directory, populated with the Assuan library (copied from the newpg repository).

2001-11-20 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (NEED\_GPGSM\_VERSION): New variable. Treat it similarly to NEED\_GPG\_VERSION.  
\* acconfig.h: Likewise.

2001-11-18 Marcus Brinkmann <marcus@g10code.de>

\* configure.in: Renamed to ...  
\* configure.ac: ... this. Update to autoconf 2.52. Lots of small changes in the transition. Support --with-gpg=PATH and --with-gpgsm=PATH options. Check if test suites can be run.  
\* acconfig.h: Add GPGSM\_PATH.  
\* Makefile.am: New variable `tests', set to `tests' if RUN\_GPG\_TESTS.  
(SUBDIRS): Replace string `tests' with variable `tests'.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

\* autogen.sh: Invoke automake with `-a' (add missing files).  
Do not invoke configure.

2001-09-17 Werner Koch <wk@gnupg.org>

Released 0.2.3.

\* configure.in (NEED\_GPG\_VERSION): Set to 1.0.6. Incremented LT current and age.

\* Makefile.am (SUBDIRS): Add doc

2001-06-12 Werner Koch <wk@gnupg.org>

Released 0.2.2.

2001-04-05 Werner Koch <wk@gnupg.org>

\* configure.in (NEED\_GPG\_VERSION): Set to 1.0.4g

2001-04-02 Werner Koch <wk@gnupg.org>

Released 0.2.1.

Changed the copyright notices all over the place.

2001-02-28 Werner Koch <wk@gnupg.org>

Released 0.2.0.

2001-01-18 Werner Koch <wk@gnupg.org>

\* autogen.sh: Added option --build-w32.

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2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2011-05-11 Marcus Brinkmann <marcus@g10code.com>

\* gpgsm/Makefile.am (DISTCLEANFILES): Move to ...  
(CLEANFILES): ... here.  
(clean-local): New rule.  
\* gpg/Makefile.am (DISTCLEANFILES): Move to ...  
(CLEANFILES): ... here.

2011-05-05 Marcus Brinkmann <marcus@g10code.com>

\* gpg/Makefile.am: Unset GPG\_AGENT\_INFO when setting up local configuration.  
(clean-local): Shut down local gpg-agent.

2011-05-04 Marcus Brinkmann <marcus@g10code.com>

\* gpg/t-import.c (check\_result): Complete secret key pair counting

and disable status check, as GPG 2.1 currently emits two IMPORT\_OK lines and we only look at the first.

2011-04-27 Marcus Brinkmann <marcus@g10code.com>

- \* gpg/Makefile.am (DISTCLEANFILES):  
Add S.gpg-agent.  
(mkdemodirs, ./Alpha/Secret.gpg): Remove targets.  
(GNUPGHOME): Export as absolute build directory (for gpg-agent).  
(./pubring.gpg): Remove --homedir option, import secdemo.asc.  
(clean-local): Rewrite.
- \* gpg/secdemo.asc: New file.
- \* gpg/pubkey-1.asc, gpg/seckey-1.asc: Change passphrase to "abc" (now needed as GnuPG 2.1 asks for secret key passphrase on import).
- \* gpg/t-keylist.c (keys): Update key info for Joe Random Hacker.  
(main): Disable check for can\_encrypt, as this is now in a different subkey.
- \* gpg/t-encrypt-sign.c (check\_result): Allow RMD160 hash algorithm.
- \* gpg/t-import.c (check\_result): One secret key pair now counts as two secret keys, allow that.

2009-11-03 Werner Koch <wk@g10code.com>

- \* run-support.h (fail\_if\_err): Include program name.
- \* run-sign.c (main): Add option --uiserver.

2009-10-26 Marcus Brinkmann <marcus@g10code.de>

- \* opassuan/t-command.c: Update to new interface.

2009-10-15 Werner Koch <wk@g10code.com>

- \* run-verify.c:  
New.

2009-08-06 Werner Koch <wk@g10code.com>

- \* run-sign.c: New.

2009-07-07 Werner Koch <wk@g10code.com>

- \* run-keylist.c (main): Add options --cms and --openpgp.
- \* gpg/pgp-keylist.c: Rename to ...
- \* run-keylist.c: ... this.

- \* gpg/pgp-import.c: Rename to ...
- \* run-import.c: ... this.
- \* gpg/pgp-export.c: Rename to ...
- \* run-export.c: ... this.
- \* run-support.h: New. Copied from gpg/t-support.h.
- \* gpg/Makefile.am (noinst\_PROGRAMS): Remove them.
- \* Makefile.am (noinst\_PROGRAMS): Add them.
- (noinst\_HEADERS): New.

2009-06-22 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/t-support.h (passphrase\_cb): Implement write() according to the book to silence compiler warning.
- \* gpgsm/t-support.h (passphrase\_cb): Likewise.

2009-06-16 Werner Koch <wk@g10code.com>

- \* gpg/pgp-import.c: New.
- \* gpg/t-support.h (print\_import\_result, nonnull): Factored out from other tools.

- \* gpg/pgp-export.c, gpg/pgp-keylist.c: New.

2009-06-09 Werner Koch <wk@g10code.com>

- \* gpg/Makefile.am
- (./pubring.gpg): Ignore errors in case of already imported keys. Add --no-permission-warning and remove obsolete --allow-secret-key-import.
- \* gpg/mkdemodirs.in (GPG): Add --no-permission-warning.
- \* gpg/t-edit.c (edit\_fnc): Use gpgme\_io\_write.

2009-04-19 Moritz <moritz@gnu.org>

- \* gpg/Makefile.am (EXTRA\_DIST): Replaced mkdemodirs with mkdemodirs.in.
- (mkdemodirs): New target.
- (clean-local): Added command for removing mkdemodirs script.
- (./Alpha/Secret.gpg): Added dependency on mkdemodirs.
- \* gpg/mkdemodirs: Renamed to ...
- \* gpg/mkdemodirs.in: ... here.
- \* gpg/mkdemodirs.in (GPG): Derive value from @GPG@ instead of hard-coding "gpg".

2009-02-24 Werner Koch <wk@g10code.com>

- \* opassuan/t-command.c: Adjust for changed new op\_assuan interface.

2009-02-03 Werner Koch <wk@g10code.com>

\* gpg/t-keylist.c (main): Check that new fields is\_cardkey and card\_number are not set.

2009-01-26 Werner Koch <wk@g10code.com>

\* opassuan/: New.

\* opassuan/Makefile.am:

New.

\* opassuan/t-command.c: New.

2008-12-03 Marcus Brinkmann <marcus@g10code.de>

\* Makefile.am (INCLUDES): Fix path to include file.

\* gpg/Makefile.am (INCLUDES), gpgsm/Makefile.am (INCLUDES): Likewise.

2008-11-18 Werner Koch <wk@g10code.com>

\* gpgsm/cms-decrypt.c: New.

2008-11-03 Marcus Brinkmann <marcus@g10code.com>

\* gpgsm/Makefile.am (INCLUDES, LDADD): Replace gpgme path with src.

\* gpg/Makefile.am (INCLUDES, LDADD, t\_thread1\_LDADD): Likewise.

\* Makefile.am (LDADD): Likewise.

2008-10-30 Werner Koch <wk@g10code.com>

\* gpgsm/cms-keylist.c: New.

2008-06-19 Werner Koch <wk@g10code.com>

\* gpg/t-gpgconf.c (dump\_arg): Add new types. Print strings in quotes.

2008-01-28 Marcus Brinkmann <marcus@g10code.de>

\* gpg/Makefile.am (DISTCLEANFILES): Add pubring.kbx~.

2008-01-10 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-gpgconf.c (main): Allow for dirmngr not to be available.

\* gpg/Makefile.am (./gpg-agent.conf): Correct pinentry path.

\* gpg/pinentry:

New file.

\* gpg/Makefile.am (DISTCLEANFILES, all-local): Add gpg-agent.conf  
(/gpg-agent.conf): New target.  
(EXTRA\_DIST): Add pinentry.

\* gpg/t-gpgconf.c (main): Exit early if compiled without gpgconf.

2008-01-04 Marcus Brinkmann <marcus@g10code.de>

\* gpg/Makefile.am (CLEANFILES): Add pubring.kbx and dirmngr.conf.

\* Makefile.am (TESTS\_ENVIRONMENT): Use absolute path for  
GNUPGHOME.

\* gpg/Makefile.am (TESTS\_ENVIRONMENT): Use absolute path for  
GNUPGHOME.

\* gpgsm/Makefile.am (TESTS\_ENVIRONMENT): Use absolute path for  
GNUPGHOME.

\* gpg/Makefile.am (TESTS): Add t-gpgconf.

t-gpgconf.c: New file.

2007-11-23 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-verify.c (show\_auditlog): Check for GPG\_ERR\_ASS\_UNKNOWN\_CMD.

2007-11-23 Werner Koch <wk@g10code.com>

\* gpgsm/t-verify.c (check\_result): Don't exit on error but set a flag.

(main): Consult flag for return value.

(show\_auditlog): New.

(main): Use it.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

\* t-engine-info.c

(check\_engine\_info): Fix debug output.

\* gpg/Makefile.am (tests\_unix): New variable.

(TESTS): Use it.

\* gpg/t-support.h (passphrase\_cb) [HAVE\_W32\_SYSTEM]: Use WriteFile instead of write.

\* gpg/t-wait.c [HAVE\_W32\_SYSTEM]: Define sleep as \_sleep.

2007-09-14 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-verify.c (main): Release TEXT and SIG.

2007-07-12 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/Makefile.am (key\_id): Change := into =.

2007-07-12 Werner Koch <wk@g10code.com>

\* gpgsm/t-support.h (init\_gpgme) [W32]: Do not init the locales as the constants are not available.

2007-02-26 Werner Koch <wk@g10code.com>

\* gpg/t-verify.c (double\_plaintext\_sig): New.  
(main): Check it.

2006-12-02 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-keylist.c (main): Skip unknown keys. Newer versions of GPGSM import more keys than older ones.

2005-12-06 Werner Koch <wk@g10code.com>

\* gpg/t-keylist.c (main): Changed for that secondary keys now have a fingerprint.

\*

gpg/t-keylist-sig.c (main): Ditto.

\* gpgsm/t-keylist.c (main): Ditto. The test used to be wrong.

2005-10-18 Werner Koch <wk@g10code.com>

\* gpg/pubdemo.asc, gpg/secdemo.asc: Add 2 expired subkeys to Whisky.

\* gpg/t-keylist.c: Reordered list to match new demo keyring. Add arg for number of subkeys and for extra checking function.

(main): Enhanced a few error outputs. Changed subkey counting. Call extra checking function.

(check\_whisky): New.

2005-10-07 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-keylist.c (main): Allow for an email address as a second uid.

\* gpg/t-sig-notation.c: Change critical notation to something GnuPG understands.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

\* gpg/Makefile.am (EXTRA\_DIST): Remove gpg.conf.

(DISTCLEANFILES): Add gpg.conf.

(all-local): Add gpg.conf.

(./gpg.conf): New target.

\* gpg/gpg.conf: Remove file.



\* gpg/Makefile.am (EXTRA\_DIST): Add gpg.conf.

\* gpg/Makefile.am (TESTS): Add t-sig-notation.

\* gpg/t-sig-notation.c

(check\_result): New file.

\* gpg/t-verify.c (check\_result): Also check the length of the notation data.

\* gpg/gpg.conf: New file.

2005-09-30 Marcus Brinkmann <marcus@g10code.de>

\* gpg/Makefile.am (TESTS): Add t-filename.

\* gpg/t-filename.c: New file.

2005-09-23 Werner Koch <wk@g10code.com>

\* gpg/t-support.h (init\_gpgme) [W32]: Don't use LC\_MESSAGES.

\* gpg/t-encrypt-large.c: New test.

\* gpg/Makefile.am (TESTS): Add t-encrypt-large.

2005-06-03 Marcus Brinkmann <marcus@g10code.de>

\* gpg/Makefile.am (TESTS): Add t-wait.

\* gpg/t-wait.c (main): New test.

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

\* gpg/mkdemodirs: Add copyright notice.

\* gpgsm/Makefile.am, gpgsm/t-support.h, gpgsm/t-decrypt.c,  
gpgsm/t-encrypt.c, gpgsm/t-export.c, gpgsm/t-genkey.c,  
gpgsm/t-import.c, gpgsm/t-keylist.c, gpgsm/t-sign.c,  
gpgsm/t-verify.c, gpg/Makefile.am, gpg/t-decrypt.c,  
gpg/t-decrypt-verify.c, gpg/t-edit.c, gpg/t-encrypt.c,  
gpg/t-encrypt-sign.c, gpg/t-encrypt-sym.c,  
gpg/t-eventloop.c,  
gpg/t-export.c, gpg/t-genkey.c, gpg/t-import.c, gpg/t-keylist.c,  
gpg/t-keylist-sig.c, gpg/t-sign.c, gpg/t-signers.c,  
gpg/t-support.h, gpg/t-thread1.c, gpg/t-trustlist.c,  
gpg/t-verify.c, Makefile.am, t-data.c, t-engine-info.c,  
t-version.c: Change license to LGPL.

2004-08-17 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-keylist.c (struct): Add new fields VALIDITY and KEY\_LENGTH.

(main): Use them.

\* gpgsm/t-import.c (check\_result): New argument total\_stat.

(main): Pass this argument. Reduce number of total considered keys to 1 for the second test.

2004-04-05 Werner Koch <wk@gnupg.org>

\* gpgsm/Makefile.am: Changed the faked system time to 20011213T12000.

2004-03-07 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-keylist.c: Add chain IDs.

2004-03-03 Werner Koch <wk@gnupg.org>

\* gpgsm/t-export.c (main): Also check exporting 2 certificates.

2004-02-17 Werner Koch <wk@gnupg.org>

\* gpgsm/t-import.c (check\_result): gpgsm does now return info in the result->imports; adjust for that.

\* gpgsm/Makefile.am (TESTS\_ENVIRONMENT): Reset the GPG\_AGENT\_INFO.

Include config.h at the top of each C source. This is required due to LFS support.

\* gpg/t-keylist-sig.c (main): s/class/sig\_class/.

\* gpg/t-signers.c (check\_result): Ditto.

\* gpg/t-sign.c (check\_result): Ditto.

\* gpg/t-encrypt-sign.c (check\_result): Ditto.

\* gpgsm/t-sign.c (check\_result): Ditto.

2004-01-12 Werner Koch <wk@gnupg.org>

\* gpg/t-keylist-sig.c (main): Temporary disabled one test due top gpg 1.3.4 problems.

\* gpg/t-import.c (check\_result): Likewise.

2003-11-19 Werner Koch <wk@gnupg.org>

\* gpg/t-support.h (DIM): Added.

\* gpg/t-verify.c (check\_result): Rewrote test for notations because the order of notations is not guaranteed.

\* gpgsm/t-support.h (fail\_if\_err): Also print the numeric values.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-eventloop.c: Include <sys/types.h> for old systems.

\* gpgsm/Makefile.am

(DISTCLEANFILES): Add random\_seed.

\* gpg/t-thread1.c (thread\_one): Do not call initialize\_gpgme.

Likewise.

2003-09-14 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-thread1.c (main): Call init\_gpgme here.

(initialize\_gpgme): Function removed.

\* gpg/t-thread1.c: New file.

\* gpg/Makefile.am (TESTS): Add t-thread1.c.

(t\_thread1\_LDADD): New variable.

(LDADD): Remove GPG Error lib.

\* gpgsm/Makefile.am (LDADD): Likewise.

\* gpg/t-import.c (main): Likewise.

\* gpg/t-keylist-sig.c (main): Likewise.

\* gpg/t-keylist.c (main): Likewise.

\* gpg/t-sign.c (main): Likewise.

\* gpg/t-signers.c (main): Likewise.

\* gpg/t-trustlist.c (main): Likewise.

\* gpgsm/t-support.h: Include <stdlib.h> and <locale.h>.

(init\_gpgme): New function.

\* gpg/t-support.h: Likewise.

\* gpgsm/t-verify.c (main): Call init\_gpgme.

\* gpgsm/t-decrypt.c (main): Likewise.

\* gpgsm/t-encrypt.c (main): Likewise.

\* gpgsm/t-export.c (main): Likewise.

\* gpgsm/t-genkey.c (main): Likewise.

\* gpgsm/t-import.c (main):

Likewise.

\* gpgsm/t-keylist.c (main): Likewise.

\* gpgsm/t-sign.c (main): Likewise.

\* gpg/t-verify.c (main): Call init\_gpgme.

\* gpg/t-decrypt-verify.c (main): Likewise.

\* gpg/t-decrypt.c (main): Likewise.

\* gpg/t-edit.c (main): Likewise.

\* gpg/t-encrypt-sign.c (main): Likewise.

\* gpg/t-encrypt-sym.c (main): Likewise.

\* gpg/t-encrypt.c (main): Likewise.

\* gpg/t-eventloop.c (main): Likewise.

- \* gpg/t-export.c (main): Likewise.
- \* gpg/t-genkey.c (main): Likewise.

2003-08-14 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/t-sign.c (check\_result): Change output format for signature class to unsigned int.
- \* gpg/t-signers.c (check\_result): Likewise.
- \* gpg/t-encrypt-sign.c (check\_result): Likewise.
- \* gpgsm/t-sign.c (check\_result): Likewise.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/t-verify.c (check\_result): Change type of SUMMARY to unsigned int.
- \* gpg/t-decrypt-verify.c (check\_verify\_result): Likewise.
- \* gpg/t-keylist-sig.c (keys): Change type of member CLASS to unsigned int.
- \* t-data.c (read\_cb): Change type of AMOUNT to unsigned int.
- \* t-version.c (version): Remove unused variable.

2003-07-22 Marcus Brinkmann <marcus@g10code.de>

- \* Makefile.am (AM\_CPPFLAGS): New variable.  
(LDADD): Add @GPG\_ERROR\_LIBS@.
- \* gpg/Makefile.am (AM\_CPPFLAGS): New variable.  
(LDADD): Add @GPG\_ERROR\_LIBS@.
- \* gpgsm/Makefile.am (AM\_CPPFLAGS): New variable.  
(LDADD): Add @GPG\_ERROR\_LIBS@.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

Everywhere: Use libgpg-error error codes.

- \* gpg/Makefile.am (noinst\_HEADERS): New variable.
- \* gpg/t-support.h: New file.
- \* gpgsm/Makefile.am (noinst\_HEADERS): New variable.
- \* gpgsm/t-support.h: New file.

2003-05-29 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/t-encrypt-sym.c (main): Adapt to new syntax.
- \* gpg/t-encrypt.c (main): Likewise.
- \* gpg/t-eventloop.c (main): Likewise.
- \* gpg/t-encrypt-sign.c (main): Likewise.
- \* gpgsm/t-export.c (main): Likewise.
- \* gpgsm/t-encrypt.c (main): Likewise.

2003-05-28 Marcus

Brinkmann <marcus@g10code.de>

- \* gpg/t-eventloop.c (main): Rewrite recipient management.
- \* gpg/t-encrypt-sign.c (main): Likewise.
- \* gpg/t-encrypt.c (main): Likewise.
- \* gpg/t-export.c (main): Likewise.
- \* gpgsm/t-encrypt.c (main): Likewise.
- \* gpgsm/t-export.c (main): Likewise.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/Makefile.am (TESTS): Order t-keylist and t-keylist-sig after t-import.
- \* gpg/t-edit.c (edit\_fnc): Fix primary UID for keylisting tests.
- \* gpg/t-keylist.c: Change order of user IDs.
- \* gpg/t-keylist-sig.c: Likewise.
- \* gpg/t-import.c: Add support for gpg in CVS.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

- \* t-data.c: Remove TEST\_OUT\_CB.  
(main): Likewise.
- \* gpg/t-trustlist.c (main): Access ITEM directly.
  
- \* (t-decrypt-verify.c, t-decrypt.c, t-edit.c, t-encrypt-sign.c, t-encrypt-sym.c, t-sign.c, t-signers.c): Include <unistd.h>.  
(passphrase\_cb): Rewritten.
- \* t-edit.c (edit\_fnc): Rewritten.

2003-05-04 Marcus Brinkmann <marcus@g10code.de>

- \*
- gpg/t-keylist-sig.c (main): Remove timestamp check.
  
- \* gpgsm/t-keylist.c: Add check for timestamp.
  
- \* gpg/Makefile.am (TESTS): Add t-keylist-sig.
- \* gpg/t-keylist-sig.c: New file.

2003-04-30 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/t-eventloop.c (main): Do not call print\_op\_info.  
(print\_op\_info): Function removed.
  
- \* gpg/t-keylist.c: Rewritten.
- \* gpgsm/t-keylist.c (main): Rewritten.

\* gpg/t-edit.c (main): Do not use gpgme\_key\_get\_as\_xml. Use gpgme\_key\_unref instead gpgme\_key\_release.  
\* gpg/t-signers.c (main): Use gpgme\_key\_unref instead gpgme\_key\_release.

2003-04-29 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-trustlist.c: Rewritten.  
\* gpg/t-verify.c (main): Rewritten.  
\* gpg/t-decrypt-verify.c: Rewritten.  
\* gpgsm/t-verify.c (main): Rewritten.

2003-04-28 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-decrypt.c (main): Rewritten.  
\* gpg/t-decrypt.c: Rewritten.  
\* gpg/t-signers.c: Rewritten.

2003-04-27 Marcus Brinkmann <marcus@g10code.de>

\*  
gpg/t-encrypt-sign.c (check\_result): Rewritten.  
\* gpg/t-sign.c: Rewritten.  
\* gpgsm/t-sign.c: Rewritten.  
\* gpg/t-encrypt.c: Check for invalid recipients.  
\* gpgsm/t-encrypt.c: Likewise.  
\* gpg/t-import.c (check\_result): Really use FPR.  
\* gpgsm/t-import.c (check\_result): Rewritten.

2003-04-25 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-import.c: Rewritten.  
\* gpgsm/t-genkey.c: Rewritten.  
\* gpgsm/Makefile.am (noinst\_PROGRAMS): Add t-genkey.  
\* gpg/t-genkey.c: Include <stdlib.h>.  
(main): Check result->fpr before checking its length.

2003-04-24 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-genkey.c: Rewritten to match new semantics.

2003-02-06 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/t-decrypt.c (passphrase\_cb): Fix to new prototype.
- \* gpg/t-decrypt-verify.c (passphrase\_cb): Likewise.
- \* gpg/t-edit.c (passphrase\_cb): Likewise.
- \* gpg/t-encrypt-sign.c (passphrase\_cb): Likewise.
- \* gpg/t-encrypt-sym.c (passphrase\_cb): Likewise.
- \* gpg/t-sign.c (passphrase\_cb): Likewise.
- \*
- gpg/t-signers.c (passphrase\_cb): Likewise.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

- \* t-engine-info.c: Use file\_name instead path throughout.
- \*
- \* Makefile.am (TESTS): Add t-engine-info.
- \* t-engine-info.c: New file.
- \* gpg/t-encrypt.c (main): Don't print engine info.
- \* gpg/t-eventloop.c (main): Likewise.
- \* gpg/t-encrypt-sign.c (main): Likewise.
- \* gpgsm/t-encrypt.c (main): Likewise.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

- \* gpgsm/t-verify.c (main): Adjust caller of gpgme\_op\_verify.
- \* gpg/t-verify.c (main): Likewise.
- \* gpg/t-decrypt-verify.c (main): Likewise for gpgme\_op\_decrypt\_verify.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

- \* gpgsm/Makefile.am (./gpgsm.conf): Add a faked system time to avoid certification's expiry.
- \* gpgsm/t-encrypt.c (main): Use the short certification name.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/t-genkey.c (main): Add missing argument to gpgme\_op\_genkey invocation.

2002-10-09 Marcus Brinkmann  
<marcus@g10code.de>

- \* gpg/t-decrypt.c (print\_data): Update to new gpgme\_data\_read interface, and use gpgme\_engine\_check\_version instead gpgme\_check\_version.
- \* gpg/t-decrypt-verify.c (print\_data): Likewise.
- \* gpg/t-edit.c (main): Likewise.
- \* gpg/t-encrypt.c (print\_data): Likewise.

\* gpg/t-encrypt-sign.c (print\_data): Likewise.  
\* gpg/t-encrypt-sym.c (print\_data): Likewise.  
\* gpg/t-eventloop.c (print\_data): Likewise.  
\* gpg/t-export.c (print\_data): Likewise.  
\* gpg/t-sign.c (print\_data): Likewise.  
\* gpg/t-signers.c (print\_data): Likewise.  
\* gpgsm/t-decrypt.c (print\_data): Likewise.  
\* gpgsm/t-encrypt.c (print\_data): Likewise.  
\* gpgsm/t-export.c (print\_data): Likewise.  
\* gpgsm/t-sign.c (print\_data): Likewise.  
\* gpg/t-verify.c (main): Likewise for gpgme\_op\_verify.  
\* gpgsm/t-verify.c (main): Likewise for gpgme\_op\_verify.  
\* t-data.c (read\_once\_test): Likewise.  
(write\_test): Update for new behaviour of data objects.  
(main): Remove type test.

2002-09-30 Werner Koch <wk@gnupg.org>

\*

gpgsm/t-keylist.c (doit): Add arg SECRET.  
(main): Add option --secret.

2002-09-28 Marcus Brinkmann <marcus@g10code.de>

\* t-version.c: Include <string.h>. Reported by Stphane Corthsy.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-keylist.c (main): Test PATTERN for NULL before printing.  
Reported by Dr. Stefan Dalibor <Dr.Stefan.Dalibor@bfa.de>.

2002-08-01 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-edit.c: Also add a test for the expire command (testing  
the passphrase callback).

2002-07-28 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-edit.c: New file.  
\* gpg/Makefile (TESTS): Add t-edit.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-encrypt-sym.c (main): Change type of I to size\_t and  
rename to LEN.  
\* gpg/t-verify.c (main): Likewise. Submitted by Stphane  
Corthsy.



2002-07-03 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/t-eventloop.c: New file.
- \* gpg/Makefile (TESTS): Add t-eventloop.

2002-06-26 Werner Koch <wk@gnupg.org>

- \*
- gpgsm/t-import.c (print\_op\_info): New.
- (main): Print operation info.

2002-06-25 Werner Koch <wk@gnupg.org>

- \* gpgsm/Makefile.am (DISTCLEANFILES): new.

2002-06-25 Marcus Brinkmann <marcus@g10code.de>

- \* gpgsm/Makefile.am (TESTS): Add t-export.
- gpgsm/t-export.c: New file.

2002-06-20 Werner Koch <wk@gnupg.org>

- \* gpgsm/t-sign.c (main): Also test a normal signature.
- \* gpg/Makefile (TESTS\_ENVIRONMENT): Set GPG\_AGENT\_INFO empty.
- \* gpg/t-signers.c, gpg/t-sign.c, gpg/t-encrypt-sym.c
- \* gpg/t-encrypt-sign.c, gpg/t-decrypt.c
- \* gpg/t-decrypt-verify.c (main): Changed the GPG\_AGENT\_INFO check to match the one in ../../gpgme/rungpg.c.

2002-06-12 Werner Koch <wk@gnupg.org>

- \* gpgsm/t-keylist.c (doit): Print operation info if available.

2002-06-10 Werner Koch <wk@gnupg.org>

- \* gpgsm/t-verify.c (print\_sig\_stat): Print the error token.

2002-06-04 Werner Koch <wk@gnupg.org>

- \* gpgsm/t-encrypt.c (main): Add a simple option parser and allow to specify an encryption key.

2002-05-26 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/Makefile.am (all-local): Remove dependency on ./secring.gpg.
- (./secring.gpg): Remove target, and move all rules for this target

to ...

(./pubring.gpg): ... here. This was necessary because GnuPG 1.0.7 does create an empty secring.gpg file when importing public keys.

2002-05-08 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-verify.c (validity\_string): New.  
(print\_sig\_stat): Print expire time and validity.  
(status\_string): Add new expired stati.

2002-05-03 Werner Koch <wk@gnupg.org>

\* gpg/t-verify.c (validity\_string): New.  
(print\_sig\_stat): Print expire time and validity.  
(status\_string): Add new expired stati.

2002-04-05 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/Makefile.am (./trustlist.txt): Put more into this file to prevent use of gpg-agent.  
(./gpg-agent.conf): Remove target.  
(all-local): Remove ./gpg-agent.conf.

2002-04-05 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-keylist.c  
(main): Use gpgme\_engine\_check\_version instead  
gpgme\_check\_engine.  
\* gpgsm/t-encrypt.c (main): Likewise.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-encrypt-sym.c: New file.  
\* gpg/Makefile.am (TESTS): Add t-encrypt-sym.

2002-03-05 Marcus Brinkmann <marcus@g10code.de>

\* gpg/Makefile.am (CLEANFILES): Remove random\_seed, which is now in DISTCLEANFILES.

2002-03-04 Werner Koch <wk@gnupg.org>

\* gpg/Makefile.am (DISTCLEANFILES): Added.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-verify.c (main): Add a few more sanity checks, and a check for normal signatures.

2002-02-26 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/t-encrypt-sign.c: New file.
- \* gpg/Makefile.am (TESTS): Add t-encrypt-sign.

2002-02-13 Werner Koch <wk@gnupg.org>

- \* gpgsm/Makefile.am (private-keys-v1.d): Don't fail when the directory already exists.

2002-02-12 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/Makefile.am (CLEANFILES): New target.
- (distclean-local): Rename to ...
- (clean-local): ... this.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

- \* gpgsm/Makefile.am (./private-keys-v1.d/\$(key\_id).key): Fix rule.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

- \* gpgsm/t-genkey.c: New file (not added to Makefile.am because of gpg-agent bug).

2002-02-08 Marcus Brinkmann <marcus@g10code.de>

- \* gpgsm/Makefile.am (key\_id): Update value.
- (all-local): Add .key to keyid filename.
- (./private-keys-v1.d/\$(key\_id)): Renamed to ...
- (./private-keys-v1.d/\$(key\_id).key): ... this.
- (all-local): Add ./gpgsm.conf, ./trustlist.txt.
- (./gpgsm.conf, ./trustlist.txt): New target.
- \* gpgsm/567064FE6D14A17B2D811ABB407728BC558AA455: Renamed to ...
- \* gpgsm/32100C27173EF6E9C4E9A25D3D69F86D37A4F939: ... this.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/t-import.c (print\_op\_info): New function.
- (main): Use it.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/t-signers.c (passphrase\_cb): Change type of r\_hd to void\*\*.
- \* gpg/t-sign.c (passphrase\_cb):

Likewise.

\* gpg/t-decrypt-verify.c (passphrase\_cb): Likewise.

\* gpg/t-decrypt.c (passphrase\_cb): Likewise.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-decrypt-verify.c: Don't include `mcheck.h'. Reported by  
Stphane Corthisy.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

\* gpg/Makefile.am (EXTRA\_DIST): Add missing line continuation.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/Makefile.am (EXTRA\_DIST): Add \$(key\_id).

2001-12-16 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/Makefile: Rename `pubcerts.kbx' to `pubring.kbx'.

2001-12-15 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-keylist.c (check\_two\_contexts): Set protocols.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-sign.c: New file.

\* gpgsm/Makefile.am (TESTS): Add t-sign.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-decrypt.c: New file.

\* gpgsm/567064FE6D14A17B2D811ABB407728BC558AA455: Likewise.

\* gpgsm/Makefile.am (TESTS): Add

t-decrypt.

(key\_id): New variable.

(all-local): New target ./private-keys-v1.d/\$(key\_id) added.

(./private-keys-v1.d/\$(key\_id)): New target.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-verify.c: New file.

\* gpgsm/Makefile.am (TESTS): Add t-verify.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

\* gpg/Makefile.am (GPG): Set to @GPG\_PATH@.

(./pubring.gpg): Use \$(GPG) instead gpg.

(./secring.gpg): Likewise.

\* gpgsm/t-import.c (main): Remove third test case.

\* gpgsm/Makefile.am (GPGSM): Set to @GPGSM@.

(all-local): New target.

(./pubcerts.kbx): Likewise.

\* gpgsm/t-encrypt.c: New file.

\* gpgsm/Makefile.am (TESTS): Add t-encrypt.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-keylist.c: New file.

\* gpgsm/Makefile.am (TESTS): Add t-keylist.

2001-12-13 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/cert\_dfn\_pca01.der: New file.

\* gpgsm/cert\_dfn\_pca15.der: Likewise.

\* gpgsm/cert\_g10code\_test1.der: Likewise.

\* gpgsm/t-import.c: Likewise.

\*

gpgsm/Makefile.am (EXTRADIST): Add new files.

(TESTS): Add t-import.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

\* gpg/: New directory.

\* Makefile.am, t-verify.c, t-encrypt.c, t-signers.c, t-trustlist.c,  
t-sign.c, t-keylist.c, t-import.c, t-genkey.c, t-export.c,  
t-decrypt-verify.c, t-decrypt.c, t-version.c, t-data.c, mkdemodirs.  
cipher-1.asc, cipher-2.asc, geheim.txt, pubdemo.asc, pubkey-1.asc,  
secdemo.asc, seckey-1.asc): Move to sub directory gpg/.

\* gpg/Makefile.am (INCLUDES): Include gpgme/, not include/ and  
intl/.

(LDD): Correct relative path to gpgme library.

(TESTS): Remove t-version and t-data.

\* gpg/t-verify.c, gpg/t-encrypt.c, gpg/t-signers.c, gpg/t-trustlist.c,  
gpg/t-sign.c, gpg/t-keylist.c, gpg/t-import.c, gpg/t-genkey.c,  
gpg/t-export.c, gpg/t-decrypt-verify.c, gpg/t-decrypt.c,  
t-version.c, t-data.c): Include gpgme.h, not "../gpgme/gpgme.h".

\* Makefile.am: New file.

\* gpgsm/: New directory.

\* gpgsm/Makefile.am: New file.

2001-11-16 Marcus

Brinkmann <marcus@g10code.de>

- \* Makefile.am (TESTS): Add t-decrypt-verify.
- \* t-decrypt-verify.c: New file.
- \* cipher-2.asc: Likewise.

2001-11-02 Marcus Brinkmann <marcus@g10code.de>

- \* t-data.c: Include stddef.h.
- (read\_once\_test): Change type of READ to size\_t.
- (read\_test): Likewise.
- (write\_test): Likewise.

2001-10-29 Marcus Brinkmann <marcus@g10code.de>

- \* t-signers.c: New file.
- \* Makefile.am (TESTS): Add t-signers.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

- \* Makefile.am (TEST\_ENVIRONMENT): Revert last change.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

- \* Makefile.am (TEST\_ENVIRONMENT): Set environment to \$(srcdir), not current directory.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

- \* t-data.c (write\_test): New function.
- (main): Invoke write\_test for all rounds except TEST\_OUT\_CB.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

- \* Makefile.am (INCLUDES): Remove spurious duplicate to silence automake.

2001-10-16 Marcus Brinkmann <marcus@g10code.de>

- \*
- t-version.c: New file.
- \* t-data.c: Likewise.
- \* t-data-1.txt: Likewise.
- \* t-data-2.txt: Likewise.
- \* Makefile.am (TESTS): Add t-version, t-data.

2001-09-17 Werner Koch <wk@gnupg.org>

\* t-keylist.c (check\_two\_contexts): New.

2001-09-03 Werner Koch <wk@gnupg.org>

\* t-encrypt.c (print\_op\_info): New and use it after each operation.

2001-08-28 Werner Koch <wk@gnupg.org>

\* t-sign.c (print\_op\_info): New and use it after each operation.

2001-03-15 Werner Koch <wk@gnupg.org>

\* t-keylist.c (doit): List subkeys too, show caps.

2001-02-13 Werner Koch <wk@gnupg.org>

\* t-verify.c (print\_sig\_stat): Repaled along by unsigned long because we don't use the config stuff here.

2001-02-12 Werner Koch <wk@gnupg.org>

\* tests/t-verify.c (print\_sig\_stat): Print info about the keys.

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# -\*- mode: org -\*-

#+TITLE: What's New in the GPGME Python Bindings and Documentation

#+AUTHOR: Ben McGinnes

#+LATEX\_COMPILER: xelatex

#+LATEX\_CLASS: article

#+LATEX\_CLASS\_OPTIONS: [12pt]

#+LATEX\_HEADER: \usepackage{xltextra}

#+LATEX\_HEADER: \usepackage[margin=1in]{geometry}

#+LATEX\_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}

#+LATEX\_HEADER: \author{Ben McGinnes <ben@gnupg.org>}

\* What's New

:PROPERTIES:

:CUSTOM\_ID: new-stuff

:END:

```
| Version:      | 0.0.1          |
| GPGME Version: | 1.13.0        |
| Author:       | Ben McGinnes <ben@gnupg.org> |
| Author GPG Key: | DB4724E6FA4286C92B4E55C4321E4E2373590E5D |
| Language:     | Australian English, British English |
| xml:lang:     | en-AU, en-GB, en |
```

Last time the most obviously new thing was adding the /What's New/ section to the HOWTO. Now it's moving it out of the HOWTO.

\*\* New in GPGME 1130

:PROPERTIES:

:CUSTOM\_ID: new-stuff-1-13-0

:END:

Additions since GPGME 1.12.0 include:

- Moving the /What's New/ section out of the basic [\[\[file:gpgme-python-howto.org\]\]](http://file.gpgme-python-howto.org) document and into its own file so as to more readily include other documents beyond that HOWTO.
- Moving the preceding, archival, segments into [\[\[file:what-was-new.org\]\]](http://file.what-was-new.org) another file].
- Added `=gpg.version.versionintlist=` to make it easier for Python developers to check for a specific version number, even with beta versions (it will drop the "-betaN" part).
- Added expanded detail on issues pertaining to installing for Windows users.
- Bindings enter [\[\[file:maintenance-mode\]\]](http://file:maintenance-mode) maintenance mode]] from January, 2019.
- Added documentation on maintenance mode and what changes can be made to the code when in that status. Essentially that boils down to bug fixes only and no feature requests.
- The `import-keys-hkp.py` example script, which uses the `=hkp4py=` module to search the SKS servers for a key, has been tightened up to search for both hexadecimal key IDs and user ID strings with reduced chance of unnecessary repetition. There may still be some repetition if a key includes a user ID matching the hexadecimal value of a key ID.

000

\*H

010 UDE1!0U

Deutsches Forschungsnetz10UDFN-PCA1.0,U%DFN Top Level Certification Authority1!0 \*H  
certify@pca.dfn.de0

001102164724Z



011230180000Z010 UDE1!0U

Deutsches Forschungsnetz10UDFN-PCA1+0)U"DFN Server Certification Authority1!0 \*H

certify@pca.dfn.de"0

\*H

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W`r;wXu)QYHm1t]4?]-.B(iw6G01N>[mQSwC'muw~E'l-M

+<[A|F)F%

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EYBmu tt[-%,R+n0j0U00U0U{upz\*D\

v0Ux0v09753http://www.pca.dfn.de/dfnpca/certify/ssl/dfnpca.crx09753http://www.pca.dfn.de/dfnpca/certify/ssl/dfn

pca.cr10 `HB0) `HBhttps://mystic.pca.dfn.de/0A `HB42http://www.pca.dfn.de/dfnpca/policy/wwwpolicy.html0 `HB

This certificate was issued by the DFN-PCA, the Top

Level Certification Authority of the German Research

Network (Deutsches Forschungsnetz, DFN).

The key owner's identity was authenticated in

accordance with the DFN World Wide Web Policy, v1.00! `HBcgi/check-rev.cgi?0

\*H

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Version 2.1, February 1999

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to most

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

1543830060

##Sketch 1 2

document()

layout('A4',1)

fp((0,0,0))

ft(1)

Fn('Helvetica-Bold')

Fs(18)

dstyle('Text')

fp((0,1,0.498))

ft(1)

lp((0,0,0))

lw(0.283465)

lc(1)

lj(0)

ld(0)

la1()

la2()

dstyle('Application Box')

layer('Layer 1',1,1,0,0,(0,0,0))

lw(1)

r(0,0,0,0,688.145,44.1554)  
lw(1)  
r(0,0,0,0,682.363,85.0359)  
lp((0.392,0.584,0.929))  
lw(4.25197)  
b()  
bs(605.383,329.758,0)  
bs(605.383,230.546,0)  
lw(1)  
r(0,0,0,0,807.414,53.6148)  
lp((0.392,0.584,0.929))  
lw(4.25)  
b()  
bs(480.134,240.945,0)  
bs(480.358,325.277,0)  
lp((0.392,0.584,0.929))  
lw(3.25)  
ld((1, 1))  
la2([( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0) ], 1))  
b()  
bs(474.803,432.284,0)  
bs(475.334,360.243,0)  
lw(3.25)  
ld((1, 1))  
la2([( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0) ], 1))  
b()  
bs(354.331,432.284,0)  
bs(352.806,361.417,0)  
lp((0.392,0.584,0.929))  
lw(3.25)  
ld((1, 1))  
la2([( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0) ], 1))  
b()  
bs(212.598,432.284,0)  
bs(212.598,361.417,0)  
fp((0.999,1,0.4))  
lw(0.283465)  
r(70.5968,0,0,-56.6929,191.608,488.976,0.0603744,0.151107)  
lw(1)  
r(0,0,0,0,88.5492,390.805)  
lp((0.392,0.584,0.929))  
lw(4.25197)  
b()  
bs(226.772,524.409,0)  
bs(226.772,488.976,0)  
lp((0.392,0.584,0.929))  
lw(4.25)  
b()

bs(403.937,528.718,0)  
bs(403.937,488.976,0)  
lp((0.392,0.584,0.929))  
lw(3.25)  
ld((1,  
1))  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))  
b()  
bs(240.945,432.284,0)  
bs(240.574,394.994,0)  
bs(595.276,396.85,0)  
bs(595.276,361.417,0)  
lp((0.392,0.584,0.929))  
lw(3.25)  
ld((1, 1))  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))  
b()  
bs(333.071,432.284,0)  
bs(333.07,425.196,0)  
bs(333.07,382.677,0)  
bs(240.945,382.677,0)  
bs(240.945,361.417,0)  
G()  
fp((0.999,1,0.4))  
lw(0.283465)  
r(70.5589,0,0,-28.347,318.897,354.331,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica-Bold')  
Fs(10)  
txt('GPG',(1,0,0,0.905764,344.004,335.686))  
G\_  
G()  
fp((0.999,1,0.4))  
lw(0.283465)  
r(70.5589,0,0,-28.3464,446.763,354.33,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('GpgConf',(0.552654,0,0,0.500564,481.802,340.184),1,1)  
G\_  
G()  
fp((0.999,1,0.4))  
lw(0.283465)

r(70.5589,0,0,-28.347,191.338,354.331,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('GpgSM',(0.552654,0,0,0.500574,226.376,340.185),1,1)  
G\_  
lp((0.392,0.584,0.929))  
lw(4.25)  
b()  
bs(347.244,325.984,0)  
bs(347.244,325.984,0)  
bs(347.244,255.118,0)  
bs(304.724,255.118,0)  
bs(304.724,226.771,0)  
lp((0.392,0.584,0.929))  
lw(4.25)  
b()  
bs(233.858,325.984,0)  
bs(233.858,255.118,0)  
bs(276.378,255.118,0)  
bs(276.378,226.771,0)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Palatino-Roman')  
txt('2008-07-17',(0.608301,0,0,0.608301,708.661,65.8308))  
lw(1)  
r(0,0,0,0,750.427,153.265)  
lp((0.392,0.584,0.929))  
lw(3.25)  
ld((1,  
1))  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))  
b()  
bs(219.685,325.984,0)  
bs(219.685,198.425,0)  
bs(219.685,162.992,0)  
G()  
fp((1,1,1))  
lw(0.283465)  
r(113.386,0,0,-42.5196,35.4333,162.992,0.0670228,0.151107)  
fp((0,0,0))  
lw(0.283465)  
Fn('Helvetica')  
Fs(14)

style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('LDAP  
Server',(0.552654,0,0,0.552654,92.1261,148.819),1,1)  
fp((0,0,0))  
lw(0.283465)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('(CRLs, Certificates)',(0.552654,0,0,0.552654,92.1261,134.646),1,1)  
G\_  
G()  
fp((1,1,1))  
lw(0.283465)  
r(113.386,0,0,-42.5196,35.4331,99.2125,0.0670228,0.151107)  
fp((0,0,0))  
lw(0.283465)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('HTTP Server',(0.552654,0,0,0.552654,92.1259,85.0394),1,1)  
fp((0,0,0))  
lw(0.283465)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('(CRLs)',(0.552654,0,0,0.552654,92.1259,70.8662),1,1)  
G\_  
G()  
fp((0.999,1,0.4))  
lw(0.283465)  
r(70.866,0,0,-31.2962,191.338,158.855,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('DirMgr',(0.552654,0,0,0.552654,224.02,142.978),1,1)  
G\_  
lw(2)



ld((1, 1))  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)), 1))  
b()  
bs(219.15,126.18,0)  
bs(219.685,77.9528,0)  
bs(155.906,77.9528,0)  
lp((0.392,0.584,0.929))  
lw(3)  
b()  
bs(233.858,127.559,0)  
bs(233.858,99.2125,0)  
bs(276.378,99.2125,0)  
bs(276.378,85.0393,0)  
lp((0.392,0.584,0.929))  
lw(3)  
b()  
bs(248.031,127.559,0)  
bs(248.031,113.386,0)  
bs(375.59,113.386,0)  
bs(375.59,85.0393,0)  
G()  
fp((1,0.647,0.31))  
lw(0.283465)  
r(99.2124,0,0,-28.3464,333.07,85.0393,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('Certificate  
Cache',(0.552654,0,0,0.552654,382.606,69.8548),1,1)  
fp((1,0.647,0.31))  
lw(0.283465)  
r(70.5589,0,0,-28.3464,248.031,85.0393,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('CRL Cache',(0.552654,0,0,0.552654,284.147,70.6936),1,1)  
G\_  
lw(1)  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)), 1))  
b()

bs(503.149,240.945,0)  
bs(503.149,283.464,0)  
bs(588.189,283.465,0)  
bs(588.189,325.984,0)  
lw(1)  
la2([( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0) ], 1))  
b()  
bs(503.149,283.464,0)  
bs(503.149,283.464,0)  
bs(361.417,283.464,0)  
bs(361.417,325.984,0)  
lw(1)  
la2([( (-4.0,  
3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0) ], 1))  
b()  
bs(361.417,283.464,0)  
bs(205.512,283.465,0)  
bs(205.512,325.984,0)  
lw(1)  
la2([( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0) ], 1))  
b()  
bs(574.015,85.0393,0)  
bs(574.015,141.732,0)  
bs(262.204,141.732,0)  
lw(1)  
la2([( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0) ], 1))  
b()  
bs(602.361,85.0393,0)  
bs(602.361,170.079,0)  
bs(439.37,170.079,0)  
bs(439.37,311.811,0)  
bs(460.629,311.811,0)  
bs(460.629,325.984,0)  
lw(1)  
ld((5, 1))  
la2([( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0) ], 1))  
b()  
bs(389.763,240.945,0)  
bs(389.763,269.291,0)  
bs(290.551,269.291,0)  
bs(290.551,340.157,0)  
bs(262.204,340.157,0)  
lw(1)  
ld((5, 1))  
la2([( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0) ], 1))  
b()  
bs(389.763,269.291,0)  
bs(559.843,269.291,0)

bs(559.843,333.071,0)  
bs(574.016,333.071,0)  
lw(1)  
ld((5, 1))  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))  
b()  
bs(488.976,85.0393,0)  
bs(488.976,127.559,0)  
bs(389.763,127.559,0)  
bs(389.763,212.598,0)  
lw(2)  
ld((1,  
1))  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))  
b()  
bs(205.512,127.559,0)  
bs(205.512,113.386,0)  
bs(170.079,113.386,0)  
bs(170.079,141.732,0)  
bs(155.906,141.732,0)  
lp((0.392,0.584,0.929))  
lw(3.25)  
ld((1, 1))  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))  
b()  
bs(622.961,356.76,0)  
bs(622.961,518.503,0)  
G()  
fp((0.999,1,0.4))  
lw(0.283465)  
r(70.5589,0,0,-28.3459,573.199,354.33,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('GpgAgent',(0.552654,0,0,0.500554,608.238,340.185),1,1)  
G\_()  
lp((0.392,0.584,0.929))  
lw(4.25)  
b()  
bs(721.712,467.717,0)  
bs(721.712,297.838,0)  
G()  
fp((0.999,1,0.4))  
lw(0.283465)  
r(70.5589,0,0,-28.3464,686.278,297.637,0.0670228,0.151107)

fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('SCdaemon',(0.552654,0,0,0.500564,721.316,283.492),1,1)  
G\_  
fp((1,0.647,0.31))  
lw(0.283465)  
lj(1)  
r(86.162,0,0,-117.493,679.192,566.929,0.181818,0.333333)  
G()  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica-Bold')  
Fs(18)  
txt('Smartcard',(0.552654,0,0,0.552654,698.127,491.036))  
fp((0.999,1,0.4))  
lw(0.283465)  
r(70.5589,0,0,-31.2962,686.279,557.593,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('Card  
Reader',(0.552654,0,0,0.552654,721.318,541.975),1,1)  
G\_  
G()  
fp((0.999,1,0.4))  
lw(0.283465)  
r(73.6353,0,0,-41.2944,587.066,565.703,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('PIN Entry',(0.57675,0,0,0.729211,623.632,545.097),1,1)  
G\_  
lp((0.392,0.584,0.929))  
lw(3.25)  
ld((1, 1))  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)), 1))  
b()

bs(643.758,340.157,0)  
bs(643.758,340.157,0)  
bs(707.539,340.158,0)  
bs(707.539,304.724,0)  
lw(1)  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))  
b()  
bs(574.016,283.465,0)  
bs(587.066,283.464,0)  
bs(686.278,283.464,0)  
G()  
lp((0.392,0.584,0.929))  
lw(4.25197)  
b()  
bs(98.9053,325.985,0)  
bs(98.9053,240.945,0)  
G()  
fp((0.999,1,0.4))  
lw(0.283465)  
r(70.5589,0,0,-28.3464,63.7795,354.331,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('WatchGnuPG',(0.552654,0,0,0.552654,98.8185,338.713),1,1)  
G\_  
G()  
fp((1,0.647,0.31))  
lw(0.283465)  
r(70.5589,0,0,-28.1194,63.7795,240.718,0.0670228,0.168178)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('Log  
Socket',(0.552654,0,0,0.552654,98.8175,225.1),1,1)  
G\_  
G\_  
G()  
fp((1,0.647,0.31))  
lw(0.283465)  
r(85.0392,0,0,-28.3464,446.457,240.945,0.0670228,0.151107)  
fp((0,0,0))  
le()

lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('Config Files',(0.552654,0,0,0.552654,485.621,226.772),1,1)  
G\_()  
G()  
fp((1,0.647,0.31))  
lw(0.283465)  
r(85.0392,0,0,-28.3464,545.669,85.0394,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('Config Files',(0.552654,0,0,0.552654,584.834,70.8662),1,1)  
G\_()  
G()  
fp((1,0.647,0.31))  
lw(0.283465)  
r(84.6546,0,0,-27.3609,347.245,239.959,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('Help  
Files',(0.552654,0,0,0.552654,388.252,224.705),1,1)  
G\_()  
G()  
fp((1,0.647,0.31))  
lw(0.283465)  
r(84.6546,0,0,-27.3609,446.457,85.0394,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')

Fs(18)  
txt('Help Files',(0.552654,0,0,0.552654,487.464,69.7854),1,1)  
G\_()  
G()  
fp((1,0.647,0.31))  
lw(0.283465)  
r(85.0392,0,0,-28.3464,248.032,240.945,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('Keybox Files',(0.552654,0,0,0.552654,289.59,226.322),1,1)  
G\_()  
G()  
fp((1,0.647,0.31))  
lw(0.283465)  
r(70.866,0,0,-28.3464,574.016,240.945,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('Private Keys',(0.552654,0,0,0.552654,609.449,226.772),1,1)  
G\_()  
G()  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(24)  
txt('Scute',(0.552654,0,0,0.599958,224.978,465.775),1,1)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Times-Roman')  
Fs(10)  
txt('(pkcs#11)',(1,0,0,1.08559,206.081,445.011))  
G\_()

G()  
fp((0.999,1,0.4))  
lw(0.283465)  
r(198.827,0,0,-56.6929,304.322,488.976,0.0603744,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(36)  
txt('GPGME  
Library',(0.552654,0,0,0.552654,404.952,457.853),1,1)  
G\_()  
G()  
lw(1)  
style('Application Box')  
r(197.598,0,0,-42.5187,304.724,566.928,0.0152672,0.0677968)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
txt('GPGME aware Application',(0.98062,0,0,0.937018,334.892,540.985))  
G\_()  
G()  
lw(1)  
style('Application Box')  
r(127.829,0,0,-41.7496,162.992,566.159,0.0152672,0.0677968)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
txt('Legacy Application',(174.688,540.01))  
G\_()  
G()  
G()  
lp((0.392,0.584,0.929))  
lw(4.25197)  
b()  
bs(749.296,162.296,0)  
bs(705.89,162.296,0)  
lw(3.25)  
ld((1, 1))  
la2((( (-4.0, 3.0), (2.0, 0.0), (-4.0,  
-3.0), (-4.0, 3.0)], 1))  
b()  
bs(705.89,100.083,0)



bs(744.472,100.083,0)  
lp((0.392,0.584,0.929))  
lw(3.25)  
ld((1, 1))  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))  
b()  
bs(705.89,131.189,0)  
bs(744.472,131.189,0)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('execute/access',(0.31891,0,0,0.280771,726.951,87.3768),1,1)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('closely linked',(0.31891,0,0,0.280771,724.715,149.589),1,1)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('Assuan protocol',(0.31891,0,0,0.280771,728.535,118.483),1,1)  
G\_()  
lw(1)  
r(56.6929,0,0,-92.126,701.575,170.079)  
G\_()  
lp((0.392,0.584,0.929))  
lw(3.25)  
ld((1, 1))  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))  
b()  
bs(248.031,325.984,0)  
bs(248.031,297.638,0)  
bs(538.583,297.638,0)  
bs(538.583,340.157,0)  
bs(566.929,340.157,0)  
lp((0.392,0.584,0.929))  
lw(3.25)  
ld((1, 1))  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))  
b()

```

bs(375.591,325.984,0)
bs(375.591,304.724,0)
bs(531.496,304.724,0)
bs(531.496,347.244,0)
bs(566.929,347.244,0)
guidelayer('Guide
Lines',1,0,0,1,(0,0,1))
grid((0,0,7.08661,7.08661),1,(0,0,1),'Grid')
Just GNU it!
Just GNU it!
Just GNU it!
# -*- mode: org -*-
#+TITLE: GNU Privacy Guard (GnuPG) Made Easy Python Bindings
#+AUTHOR: Ben McGinnes
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltextra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}

```

\* GPGME Python Bindings

```

:PROPERTIES:
:CUSTOM_ID: top
:END:

```

\*\* Contents

```

:PROPERTIES:
:CUSTOM_ID: contents
:END:

```

```

- [[file:short-history][A short history of the project]]
- [[file:what-is-new][What's New]]
- [[file:maintenance-mode][Maintenance Mode]] (from January, 2019)
- [[file:what-was-new][What Was New]]
- [[file:gpgme-python-howto][GPGME Python Bindings HOWTO]]
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  Version 2, June 1991

```

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```

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```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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under certain conditions; type `show c' for details.
```

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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```
\input texinfo @c -*- texinfo -*-
```

```
@c %**start of header
```

```
@setfilename short-history.info
```

```
@settitle A Short History of the GPGME bindings for Python
```

```
@documentencoding utf-8
```

```
@documentlanguage en
```

```
@c %**end of header
```

```
@finalout
```

```
@titlepage
```

```
@title A Short History of the GPGME bindings for Python
```

```
@author Ben McGinnes
```

```
@end titlepage
```

```
@contents
```

```
@ifnottex
```

```
@node Top
```

```
@top A Short History of the GPGME bindings for Python
```

```
@end ifnottex
```

```
@menu
```

```
* Overview::
```

```
* Relics of the past::
```

```
@detailmenu
```

```
--- The Detailed Node Listing ---
```

```
Overview
```

```
* In the beginning::
```

```
* Keeping the flame alive::
```

```
* Passing the torch::
```

\* Coming full circle::

Relics of the past

\* The Annoyances of Git::

\* The Perils of PyPI::

The Perils of PyPI

\* GPG 180 - Python bindings for GPGME GnuPG cryptography library::

\* PyME 090 - Python support for GPGME GnuPG cryptography library::

@end detailmenu

@end menu

@node Overview

@chapter Overview

@multitable {aaaaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}

@item Version:

@tab

0.0.1

@item GPGME Version:

@tab 1.13.0

@item Author:

@tab Ben McGinnes <ben@gnupg.org>

@item Author GPG Key:

@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D

@item Language:

@tab Australian English, British English

@item xml:lang:

@tab en-AU, en-GB, en

@end multitable

The GPGME Python bindings passed through many hands and numerous phases before, after a fifteen year journey, coming full circle to return to the source. This is a short explanation of that journey.

@menu

\* In the beginning::

\* Keeping the flame alive::

\* Passing the torch::

\* Coming full circle::

@end menu

@node In the beginning

@section In the beginning

In 2002 John Goerzen released PyME; Python bindings for the GPGME module which utilised the current release of Python of the time and SWIG.<sup>@footnote{In all likelihood this would have been Python 2.2 or possibly Python 2.3.}</sup> Shortly after creating it and ensuring it worked he stopped supporting it, though he left his work available on his Gopher site.

@node Keeping  
the flame alive  
@section Keeping the flame alive

A couple of years later the project was picked up by Igor Belyi and actively developed and maintained by him from 2004 to 2008. Igor's whereabouts at the time of this document's creation are unknown, but the current authors do hope he is well. We're assuming (or hoping) that life did what life does and made continuing untenable.

@node Passing the torch  
@section Passing the torch

In 2014 Martin Albrecht wanted to patch a bug in the PyME code and discovered the absence of Igor. Following a discussion on the PyME mailing list he became the new maintainer for PyME, releasing version 0.9.0 in May of that year. He remains the maintainer of the original PyME release in Python 2.6 and 2.7 (available via PyPI).

@node Coming full circle  
@section Coming full circle

In 2015 Ben McGinnes approached Martin about a Python 3 version, while investigating how complex a task this would be the task ended up being completed. A subsequent discussion with Werner Koch led to the decision to fold the Python 3 port back into the original GPGME release in the languages subdirectory for non-C bindings under the module name of @samp{pyme3}.

In 2016 this PyME module was integrated back into the GPGME project by Justus Winter. During the course of this work Justus adjusted the port to restore limited support for Python 2, but not as many minor point releases as the original PyME package supports. During the course of this integration the package was renamed to more accurately reflect its status as a component of GPGME. The @samp{pyme3} module was renamed to @samp{gpg} and adopted by the upstream GnuPG team.

In 2017 Justus departed G10code and the GnuPG team. Following this Ben returned to maintain of gpgme Python bindings and continue

building them from that point.

```
@node Relics of the past
@chapter Relics of the past
```

There are a few things, in addition to code specific factors, such as SWIG itself, which are worth noting here.

```
@menu
*
  The Annoyances of Git::
* The Perils of PyPI::
@end menu
```

```
@node The Annoyances of Git
@section The Annoyances of Git
```

As anyone who has ever worked with git knows, submodules are horrible way to deal with pretty much anything. In the interests of avoiding migraines, that was skipped with addition of the PyME code to GPGME.

Instead the files were added to a subdirectory of the @samp{lang/} directory, along with a copy of the entire git log up to that point as a separate file within the @samp{lang/python/docs/} directory. @footnote{The entire PyME git log and other preceding VCS logs are located in the @samp{gpgme/lang/python/docs/old-commits.log} file.} As the log for PyME is nearly 100KB and the log for GPGME is approximately 1MB, this would cause considerable bloat, as well as some confusion, should the two be merged.

Hence the unfortunate, but necessary, step to simply move the files. A regular repository version has been maintained should it be possible to implement this better in the future.

```
@node The Perils of PyPI
@section The Perils of PyPI
```

The early port of the Python 2 @samp{pyme} module as @samp{pyme3} was never added to PyPI while the focus remained on development and testing during 2015 and early 2016. Later in 2016, however, when Justus completed his major integration work and subsequently renamed the module from @samp{pyme3} to @samp{gpg}, some prior releases were also provided through PyPI.

Since these bindings require a matching release of the GPGME libraries in order to function, it was determined that there was

little benefit in also providing a copy through PyPI since anyone obtaining the GPGME source code would obtain the Python bindings source code at the same time. Whereas there was the potential to sew confusion amongst Python users installing the module from PyPI, only to discover that without the relevant C files, header files or SWIG compiled binaries, the Python module did them little good.

There are only two files on PyPI which might turn up in a search for this module or a sample of its content:

```
@enumerate
@item
gpg (1.8.0) - Python bindings for GPGME GnuPG cryptography library
@item
pyme (0.9.0) - Python support for GPGME GnuPG cryptography library
@end enumerate
```

```
@menu
* GPG 180 - Python bindings for GPGME GnuPG cryptography library::
* PyME 090 - Python support for GPGME GnuPG cryptography library::
@end menu
```

```
@node GPG 180 - Python bindings for GPGME GnuPG cryptography library
@subsection GPG 180 - Python bindings for GPGME GnuPG cryptography library
```

This is the most recent version to reach PyPI and is the version of the official Python bindings which shipped with GPGME 1.8.0. If you have GPGME 1.8.0 installed and **only** 1.8.0 installed, then it is probably safe to use this copy from PyPI.

As there have been a lot of changes since the release of GPGME 1.8.0, the GnuPG Project recommends not using this version of the module and instead installing the current version of GPGME along with the Python bindings included with that package.

```
@node PyME 090 - Python support for GPGME GnuPG cryptography library
@subsection PyME 090 - Python support for GPGME GnuPG cryptography library
```

This is the last release of the PyME bindings maintained by Martin Albrecht and is only compatible with Python 2, it will not work with Python 3. This is the version of the software from which the port from Python 2 to Python 3 code was made in 2015.

Users of the more recent Python bindings will recognise numerous points of similarity, but also significant differences. It is likely that the more recent official bindings will feel "more

pythonic."

For those using Python 2, there is essentially no harm in using this module, but it may lack a number of more recent features added to GPGME.

@bye

commit 2145348ec54c6027f2ea20f695de0277e2871405

Merge: 348ba88 2036f1a

Author: Ben McGinnes <ben@adversary.org>

Date: Wed May 6 03:04:19 2015 +1000

Merge pull request #4 from Hasimir/master

history

commit 2036f1a0a670a0561993e195c458059220b36114

Merge: dbabf0c 348ba88

Author: Ben McGinnes <ben@adversary.org>

Date: Wed May 6 02:57:44 2015 +1000

Merge branch 'master' of github:adversary-org/pyme3

commit dbabf0cf1f2985755c2293b619011832e34faa9c

Author: Ben McGinnes <ben@adversary.org>

Date: Wed May 6 02:52:23 2015 +1000

Added a short history

- \* A (very) brief summary of the project's history since 2002.
- \* Deals with why the commit log in the GPGME repo does not include the history of PyME.
- \* Mentions that intact git repos will be maintained, but not where they are (one will be on github, another will be in a user directory on playfair.gnupg.org).

docs/Short\_History.rst | 57 ++++++

1 file

changed, 57 insertions(+)

commit 348ba883424778c711c04ae9b66035ccdb36eb8c

Merge: 127d0a5 7c37a27

Author: Ben McGinnes <ben@adversary.org>

Date: Wed May 6 02:21:34 2015 +1000

Merge pull request #3 from Hasimir/master

Version release preparation

commit 7c37a27a6845c58222d4d947c2efbe38e955b612  
Merge: f692cff 127d0a5  
Author: Ben McGinnes <ben@adversary.org>  
Date: Wed May 6 02:17:14 2015 +1000

Merge branch 'master' of github:adversary-org/pyme3

commit f692cff50a89c2c61acdbd3d7dd60f5ce3cd15af  
Author: Ben McGinnes <ben@adversary.org>  
Date: Wed May 6 02:09:44 2015 +1000

TODO update

\* Removed reference to GitHub, replaced with impending new home at gnupg.org.

docs/TODO.rst | 4 +++--  
1 file changed, 2 insertions(+), 2 deletions(-)

commit bd5ccf9e3bfe69fa681613757577e87b72ca08ec  
Author: Ben McGinnes <ben@adversary.org>  
Date: Wed May 6 02:00:44 2015 +1000

Version bump

\* Bumped version number to 0.9.1 to keep it somewhat in line with the existing

PyME project, even though there will be some divergence at some point (or even re-merging, depending on how many of the Python 3 modifications can be back-ported to the Python 2 version).

\* Updated the author and copyright information to reflect the two current authors (Martin and I).

\* Replaced Igor's contact details with mine.

\* Replaced project home page with the GnuPG one.

pyme/version.py | 16 ++++++++-----  
1 file changed, 9 insertions(+), 7 deletions(-)

commit ec167512f4ca88d8f6e89e2ae831798c8283b4df  
Author: Ben McGinnes <ben@adversary.org>  
Date: Wed May 6 01:48:01 2015 +1000

README preparation.

\* Changes in preparation for impending move of code to the GnuPG git server as a part of GPGME.

README.rst | 14 ++++++-----



1 file changed, 7 insertions(+), 7 deletions(-)

commit 8a48515e884c36b5bdb24a13cb4d2e49f4ee6f17

Author: Ben McGinnes <ben@adversary.org>

Date: Wed May 6 01:43:53 2015 +1000

TODO moved to docs

\* As it says.

TODO.rst | 25 -----

docs/TODO.rst | 25 ++++++

2 files changed, 25 insertions(+), 25 deletions(-)

commit f968c777472f01f308f6e57eac1740bf5c76c205

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 16:52:13 2015 +1000

Started another TODO file.

TODO.rst | 25 ++++++

1 file changed, 25 insertions(+)

commit 127d0a56fa9f7ad1d4fb39d0b529b890a8d67365

Merge: db72dea 44837f6

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 14:59:44 2015 +1000

Merge pull request #2 from Hasimir/master

Minor editing.

commit 44837f6e50fc539c86aef1f75a6a3538b02029ea

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 14:56:55 2015 +1000

Minor editing.

\* Fixed another URL.

\* Changed Py3 version's version number to v0.9.1-beta0.

README.rst | 4 ++--

1 file changed, 2 insertions(+), 2 deletions(-)

commit db72deaae19c3513391df040bc6a66a88d9213af

Merge: db34286 48eb185

Author:

Ben McGinnes <ben@adversary.org>  
Date: Sun May 3 14:26:11 2015 +1000

Merge pull request #1 from Hasimir/master

Links

commit 48eb1856cb0739cc9f0b9084da9d965e1fc7fddd  
Author: Ben McGinnes <ben@adversary.org>  
Date: Sun May 3 14:22:30 2015 +1000

Links

- \* Fixed URLs for authors.
- \* Updated my entry to point to github location.
- \*\* I strongly suspect the result of this work will be concurrent projects, so preparing for that eventuality with this repo.

README.rst | 8 ++++----  
1 file changed, 4 insertions(+), 4 deletions(-)

commit db3428659783f30b9a76204403daedf9fc4cf7cf  
Author: Ben McGinnes <ben@adversary.org>  
Date: Sun May 3 11:29:00 2015 +1000

Explicit over Implicit ...

... isn't just for code.

- \* Removed the 2to3 working directory and its contents.
- \* Made the README.rst file a little more clear that this branch is for Python 3 (set Python 3.2 as a fairly arbitrary requirement for the moment, but will probably raise this to 3.3).

2to3/2to3-output-remaining.log | 60 ---  
2to3/2to3-output-setup.log | 35 --  
2to3/2to3-output.log | 950 -----  
README.rst | 10 +-  
4 files changed, 7 insertions(+), 1048 deletions(-)

commit 3edf07a4ba8a86af3a33246234d6e133074862af  
Author: Ben McGinnes <ben@adversary.org>  
Date: Sun May 3 11:19:41 2015 +1000

Added authors.

- \* In alphabetical order.

\* Mine will need updating once Martin and I have decided what to do regarding the two main branches.

README.rst | 12 ++++++++  
1 file changed, 12 insertions(+)

commit 811eb14b53e8856312d99f46b77215f7f9bd672c  
Author: Ben McGinnes <ben@adversary.org>  
Date: Sun May 3 10:23:00 2015 +1000

Docs and other things.

- \* Now able to import pyme.core without error, indicates port process is successful.
- \* Code is *\*not\** compatible with the Python 2 version.
- \* Will need to consider making this a parallel project with the master branch.
- \* Got rid of the .org TODO file.
- \* Changed the README to use the reST file extension since it's full of reST anyway.

2to3/TODO.org | 5 ----  
README.rst | 32 ++++++++  
README.txt | 32 -----  
3 files changed, 32 insertions(+), 37 deletions(-)

commit 79e784bdce1de6f7856921b5431044c62c6f015  
Author: Ben McGinnes <ben@adversary.org>  
Date: Sun May 3 10:18:40 2015 +1000

Fixed another implicit import by making it explicit. Hopefully this is the last one.

pyme/util.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 2b52b46ccda3e7abcc50eed0745062259d698661  
Author: Ben McGinnes <ben@adversary.org>  
Date: Sun May 3 10:16:01 2015 +1000

Fixed another implicit import by making it explicit.

pyme/errors.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 409c8fd565e21f23cd41daaeffc867e6d23a0863  
Author: Ben McGinnes <ben@adversary.org>  
Date: Sun May 3 10:08:22

2015 +1000

### Bytes vs. Unicode

\* Trying PyBytes instead of PyUnicode.

gpgme.i | 14 ++++++-----  
helpers.c | 8 +++++---  
2 files changed, 11 insertions(+), 11 deletions(-)

commit d8164aa2ae98bf8c807c16e2d9be12c5fba7cfd

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 09:22:58 2015 +1000

### String to Unicode

\* Replaced all instances of PyString with PyUnicode (and hoping there's no byte data in there).

gpgme.i | 14 ++++++-----  
helpers.c | 8 +++++---  
2 files changed, 11 insertions(+), 11 deletions(-)

commit bd99b7865656e559b17c419c6b64b412a22c6c44

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 09:17:06 2015 +1000

### PyInt\_AsLong

\* Replaced all instances of PyInt with PyLong, as per C API docs.

gpgme.i | 4 +---  
helpers.c | 8 +++++---  
2 files changed, 6 insertions(+), 6 deletions(-)

commit 3c91e2ccf8ca788b51e3308e292c6b64888fdb15

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 05:59:36 2015 +1000

### Import correction

\* Once pygpgme.py is generated and moved, it will be in the right directory for the explicit "from . import pygpgme" to be correct.

pyme/core.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 23a49e7070812ff1ce138d8d4cc46d0b80328897

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 05:38:29 2015 +1000

The -py3 flag.

Makefile | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit b1549587d6db5e33081b9c20f75d1348a1d25938

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 05:01:42 2015 +1000

Fixed indentation - 4.

pyme/core.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit a685142ce46761ee6f5176e90717176e38e0d24f

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 05:00:16 2015 +1000

Fixed indentation - 3.

pyme/core.py | 5 +++-  
1 file changed, 2 insertions(+), 3 deletions(-)

commit 488a70b490cc64eb1c47d2483cb2f4079c6767f7

Author: Ben McGinnes <ben@adversary.org>

Date: Sun

May 3 04:53:21 2015 +1000

Pet Peeve

```
def pet_peeve(self):  
    peeve = print("people who don't press return after a colon!")
```

FFS!

pyme/core.py | 5 +++-  
1 file changed, 3 insertions(+), 2 deletions(-)

commit a5d38eb47d64bb17bb609fe594dae2aca480bac9

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 04:47:54 2015 +1000

Fixed indentation - 2.

pyme/core.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 476a207f732b8559abb1ea3c23147c0e34804730

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 04:46:01 2015 +1000

Fixed indentation.

pyme/core.py | 4 +++  
1 file changed, 2 insertions(+), 2 deletions(-)

commit 0572900eba9bcd9b0283c7d8e022e8972f06f9f8

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 04:43:49 2015 +1000

Replaced all tabs with 4 spaces.

pyme/core.py | 18 ++++++++-----  
1 file changed, 9 insertions(+), 9 deletions(-)

commit 78c0b7677e94ce1e11b8cdb833a9064527187330

Author: Ben McGinnes <ben@adversary.org>

Date:

Sun May 3 04:39:07 2015 +1000

SWIG flags in the wrong place.

Makefile | 4 +++  
1 file changed, 2 insertions(+), 2 deletions(-)

commit dfa7f2589963494a8f89277560d8c1116604a3c8

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 04:35:09 2015 +1000

Fixed subprocess call for swig (again).

setup.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 249bfd8c714dcda53127b99b6cc8a6c7c4a99f20

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 04:32:40 2015 +1000

Fixed subprocess call for swig.

setup.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 6fd7e719cf4c975f466ceb39835db7007df36fb2

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 03:51:48 2015 +1000

Linking swig to py3

\* Changed the swig invocations to run with the -python -py3 flags explicitly.

Makefile | 4 +++-

setup.py | 2 +-  
2 files changed, 3 insertions(+), 3 deletions(-)

commit 7a6b584f50ed6ddc8617a642185eea1f24ff791a

Author:

Ben McGinnes <ben@adversary.org>

Date: Sat May 2 11:12:00 2015 +1000

String fun

\* streamlined confdata details, including decoding strom binary to string.

setup.py | 4 +---

1 file changed, 1 insertion(+), 3 deletions(-)

commit f7fd3f270592021a95a8f779bfe85ac18f4e390b

Author: Ben McGinnes <ben@adversary.org>

Date: Sat May 2 10:46:59 2015 +1000

Open File

\* Removed deprecated file() and replaced with open().

examples/PyGtkGpgKeys.py | 2 +-  
examples/pygpa.py | 6 +++---  
gpgme-h-clean.py | 2 +-  
3 files changed, 5 insertions(+), 5 deletions(-)

commit 4227d486f9558015e7e548d71085e58e1b50ec08

Author: Ben McGinnes <ben@adversary.org>

Date: Sat May 2 10:36:15 2015 +1000

print() fix

\* Makefile includes a python print, changed from statement to function.

Makefile | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 406f7f2567b701502186fe0a325dc2a3491ff7f8

Author: Ben McGinnes <ben@adversary.org>

Date: Sat May 2 10:28:42  
2015 +1000

Updated Makefile

- \* set make to use python3 instead.
- \* This will mean a successful port may need to be maintained separately from the original python2 code instead of merged, but ought to be able to share most things. So maybe merge with separated make files or a pre-make script to set python2 or python3 prior to building ... decide later, after it works.

Makefile | 6 +++---

1 file changed, 3 insertions(+), 3 deletions(-)

commit 90b3efa5b193d37e08dc9b4ee766ba9ebc9412af

Author: Ben McGinnes <ben@adversary.org>

Date: Sat May 2 10:15:20 2015 +1000

Env and a little license issue

- \* Updated all the /usr/bin/env paths to point to python3.
- \* Also fixed the hard coded /usr/bin/python paths.
- \* Updated part of setup.py which gave the impression this package was only licensed under the GPL (it's actually licensed under the LGPL as well, essentially the same dual licensing as the GPGME library).

examples/PyGtkGpgKeys.py

| 2 +-  
examples/delkey.py

| 2 +-  
examples/encrypt-to-all.py

| 2 +-  
examples/exportimport.py

| 2 +-  
examples/genkey.py

| 2 +-  
examples/inter-edit.py

| 2 +-  
examples/pygpa.py

| 2 +-  
examples/sign.py

| 2 +-  
examples/signverify.py

| 2 +-  
examples/simple.py

| 2 +-  
examples/t-edit.py

| 2 +-  
examples/testCMSgetkey.py

| 2 +-  
examples/verifydetails.py

| 2 +-  
gpgme-h-clean.py

| 4 +++  
setup.py

15 files changed, 16 insertions(+), 16 deletions(-)



commit 1a4b55dbccd2774344352e579130bf494bc5fa4b

Author: Ben McGinnes <ben@adversary.org>

Date: Sat May 2 08:50:54 2015 +1000

Removed extraneous files.

\* The two .bak files.

pyme/errors.py.bak | 46 -----

setup.py.bak | 116 -----

2 files changed, 162 deletions(-)

commit 208879d4f2a6d0514c3f8ee2fc0da8bba42350de

Author: Ben McGinnes <ben@adversary.org>

Date:

Sat May 2 08:19:37 2015 +1000

Added TODO.org

\* TODO list in Emacs org-mode.

\* Will eventually be removed along with this entire directory when the porting process is complete.

2to3/TODO.org | 5 +++++

1 file changed, 5 insertions(+)

commit 1548bf201059638675c5387c6f124d4b703363a9

Author: Ben McGinnes <ben@adversary.org>

Date: Sat May 2 07:58:40 2015 +1000

2to3 conversion of remaining files

\* Ran the extended version against all the unmodified python files.

\* Only pyme/errors.py required additional work.

2to3/2to3-output-remaining.log | 60 ++++++

pyme/errors.py | 2 +-

pyme/errors.py.bak | 46 ++++++

3 files changed, 107 insertions(+), 1 deletion(-)

commit 1230650bc6bbe4c14d1284f7877aa932f3e86eb4

Author: Ben McGinnes <ben@adversary.org>

Date: Sat May 2 07:50:39 2015 +1000

2to3 conversion of setup.py

\* Ran extended 2to3 command to produce

python 3 code for setup.py.

\* Effectively testing for what to run against the other originally unmodified py2 files.

```
2to3/2to3-output-setup.log | 35 ++++++
setup.py | 7 +-
setup.py.bak | 116 ++++++
3 files changed, 154 insertions(+), 4 deletions(-)
```

commit edad44955f59aa879e95a369591717fb19eec6b7  
Author: Ben McGinnes <ben@adversary.org>  
Date: Fri May 1 21:50:07 2015 +1000

Removing 2to3 generated .bak files.

\* Not really needed with a real VCS, but couldn't hurt to have them for a couple of revisions. ;)

```
examples/PyGtkGpgKeys.py.bak | 663 -----
examples/encrypt-to-all.py.bak | 65 --
examples/exportimport.py.bak | 75 --
examples/genkey.py.bak | 45 -
examples/inter-edit.py.bak | 57 --
examples/pygpa.py.bak | 1457 -----
examples/sign.py.bak | 31 -
examples/signverify.py.bak | 78 --
examples/simple.py.bak | 52 --
examples/t-edit.py.bak | 59 --
examples/testCMSgetkey.py.bak | 45 -
examples/verifydetails.py.bak | 100 ---
gpgme-h-clean.py.bak | 42 -
pyme/callbacks.py.bak | 47 --
pyme/constants/data/__init__.py.bak | 4 -
pyme/constants/keylist/__init__.py.bak | 4 -
pyme/constants/sig/__init__.py.bak | 4 -
pyme/core.py.bak | 463 -----
pyme/util.py.bak | 72 --
pyme/version.py.bak | 41 -
20 files changed, 3404 deletions(-)
```

commit 1cfc3c969f885ed191610bffb60ac23fdd349e  
Author: Ben McGinnes <ben@adversary.org>  
Date: Fri May 1 21:45:50 2015 +1000

2to3 conversion log

\* The output of the command to convert the code from Python 2 to 3.

\* Note: this contains the list of files which were not modified  
and  
which will or may need to be modified.

2to3/2to3-output.log | 950 ++++++  
1 file changed, 950 insertions(+)

commit 078f6cf878aa62d12704fab424198a613a24cc8c

Author: Ben McGinnes <ben@adversary.org>

Date: Fri May 1 21:36:58 2015 +1000

2to3 conversion of pyme master

\* Branch from commit 459f3eca659b4949e394c4a032d9ce2053e6c721

\* Ran this: or x in `find . | egrep .py\$` ; do 2to3 -w \$x; done ;

\* Multiple files not modified, will record elsewhere (see next commit).

```
examples/PyGtkGpgKeys.py      | 10 +-
examples/PyGtkGpgKeys.py.bak  | 663 ++++++
examples/encrypt-to-all.py   | 12 +-
examples/encrypt-to-all.py.bak | 65 ++
examples/exportimport.py      | 20 +-
examples/exportimport.py.bak  | 75 ++
examples/genkey.py            | 2 +-
examples/genkey.py.bak        | 45 +
examples/inter-edit.py        | 8 +-
examples/inter-edit.py.bak    | 57 ++
examples/pygpa.py             | 40 +-
examples/pygpa.py.bak         | 1457 ++++++
examples/sign.py              | 2 +-
examples/sign.py.bak          | 31 +
examples/signverify.py        | 18 +-
examples/signverify.py.bak    | 78 ++
examples/simple.py            | 8 +-
examples/simple.py.bak        | 52 ++
examples/t-edit.py            | 12 +-
examples/t-edit.py.bak        | 59 ++
examples/testCMSgetkey.py     | 8 +-
examples/testCMSgetkey.py.bak | 45 +
examples/verifydetails.py     | 34 +-
examples/verifydetails.py.bak | 100 +++
gpgme-h-clean.py             | 2 +-
gpgme-h-clean.py.bak         | 42 +
pyme/callbacks.py            | 6 +-
pyme/callbacks.py.bak        | 47 ++
pyme/constants/data/__init__.py
```

```
| 2 +-
pyme/constants/data/__init__.py.bak | 4 +
pyme/constants/keylist/__init__.py | 2 +-
pyme/constants/keylist/__init__.py.bak | 4 +
pyme/constants/sig/__init__.py | 2 +-
pyme/constants/sig/__init__.py.bak | 4 +
pyme/core.py | 26 +-
pyme/core.py.bak | 463 ++++++++
pyme/util.py | 6 +-
pyme/util.py.bak | 72 ++
pyme/version.py | 2 +-
pyme/version.py.bak | 41 +
40 files changed, 3515 insertions(+), 111 deletions(-)
```

commit 459f3eca659b4949e394c4a032d9ce2053e6c721

Merge: c5966ab dae7f14

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Wed Jul 9 10:48:33 2014 +0100

Merged in jerrykan/pyme/fix\_setup\_26 (pull request #1)

Provide support for using setup.py with Python v2.6

commit dae7f14a54e6c2bde0ad4da7308cc7fc0d0c0469

Author: John Kristensen

<john.kristensen@dpiuwe.tas.gov.au>

Date: Wed Jul 9 15:54:39 2014 +1000

Provide support for using setup.py with Python v2.6

The setup.py script uses subprocess.check\_output() which was introduced in Python v2.7. The equivalent functionality can be achieved without adding much extra code and provide support for Python v2.6.

```
setup.py | 4 +++-
```

1 file changed, 3 insertions(+), 1 deletion(-)

commit c5966abec9d772b3922d32650da288fd50a217be

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Thu May 15 19:43:00 2014 +0100

README.txt in ReST, including headlines

```
README.txt | 8 ++++++--
```

1 file changed, 6 insertions(+), 2 deletions(-)

commit 43ee8c6f34fa9b6d3975aa6ea60b3d4a741fa721

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Thu May 15 19:37:15 2014 +0100

README.txt in ReST

README.txt | 25 ++++++-----  
1 file changed, 13 insertions(+), 12 deletions(-)

commit f71a369484cba8801df23ccc5842335fa496c0df

Author:

Martin Albrecht <martinralbrecht@googlemail.com>

Date: Thu May 15 19:28:12 2014 +0100

added MANIFEST.in and README.txt (instead of .md)

MANIFEST.in | 6 ++++++  
README.md | 27 -----  
README.txt | 27 ++++++-----  
3 files changed, 33 insertions(+), 27 deletions(-)

commit d0d6755229f920b0bed043e9c2731de2d57c096c

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Tue May 13 09:52:44 2014 +0100

added mailing list to README

README.md | 19 ++++++-----  
1 file changed, 16 insertions(+), 3 deletions(-)

commit 30ca60ddf92df684de261cb24c83c68089be0adc

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Sun May 11 13:34:28 2014 +0100

we don't need a separate out of date ChangeLog file

ChangeLog | 802 -----  
1 file changed, 802 deletions(-)

commit 8263f1a6d38fdb7f5f3dd5c7e28f83caa7528a08

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date:

Sun May 11 13:32:31 2014 +0100

adding README.md

README.md | 14 ++++++-----  
1 file changed, 14 insertions(+)

commit 3fc71b47e9e14b0b984801c28d722723baa4b406

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Sat May 10 15:43:06 2014 +0100

ValueError -> RuntimeError

setup.py | 4 +++-

1 file changed, 2 insertions(+), 2 deletions(-)

commit eec432abea56296b9fa36aac0d10926a2335b739

Merge: eea6537 d2738b3

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Sat May 10 15:41:02 2014 +0100

Merge branch 'master' of bitbucket.org:malb/pyme

Conflicts:

setup.py

commit eea6537921061b4dcfc54e00a99d3fa110e71433

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Sat May 10 15:39:51 2014 +0100

check for swig

setup.py | 8 ++++++++

1 file changed, 8 insertions(+)

commit 53867bf9715ee1b4ea873bf5e2fbb7d9740a2b4a

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Sat May 10 15:35:04 2014 +0100

more friendly error message if gpgme is missing

setup.py | 8 ++++++++

1 file changed, 7 insertions(+), 1 deletion(-)

commit d2738b35d63b1492d69641c5466103685f2d3a30

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Sat May 10 15:35:04 2014 +0100

more friendly error message if gpgme is missing

setup.py | 8 ++++++++

1 file changed, 7 insertions(+), 1 deletion(-)

commit c0b01240becf8ba6cf1d4c1f64b2cb4c056f5163

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Fri May 9 15:20:24 2014 +0100

version number should have three digits

pyme/version.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 6672bb60b9bec60d38e854016c48658b57774578

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Wed May 7 15:11:08 2014 +0100

bump version number for upcoming release

pyme/version.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 7bd6de700f33ca5d1f27bc16ebbd401f21d2e788

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date:

Sat May 3 19:36:25 2014 +0100

bump version number to indicate changes

pyme/version.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 4fb6bd9b3f47c1a343242ac83b326cacd12a136e

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Sat May 3 19:34:07 2014 +0100

pyme instead of pygpgme

setup.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 9548973138d78241a45ccb82333b25f2cf36ce7d

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Sat May 3 19:31:10 2014 +0100

dirty hack to make 'python setup.py install' work

setup.py | 7 +++++--  
1 file changed, 4 insertions(+), 3 deletions(-)

commit a961d7eab9db478b7e603324bc5d243bd3c84bad

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Sat May 3 19:05:44 2014 +0100

moved everything down to the toplevel directory

```

COPYING | 340 ++
COPYING.LESSER | 510 +++
ChangeLog
      | 802 ++++++
INSTALL | 15 +
Makefile | 104 +
debian/README.Debian | 6 +
debian/changelog | 93 +
debian/control | 34 +
debian/copyright | 25 +
debian/docs | 2 +
debian/examples | 2 +
debian/rules | 99 +
examples/PyGtkGpgKeys.glade | 1394 ++++++++
examples/PyGtkGpgKeys.gladep | 8 +
examples/PyGtkGpgKeys.py | 663 ++++
examples/delkey.py | 34 +
examples/encrypt-to-all.py | 65 +
examples/exportimport.py | 75 +
examples/genkey.py | 45 +
examples/inter-edit.py | 57 +
examples/pygpa.glade | 5546 ++++++++
examples/pygpa.py
      | 1457 ++++++++
examples/sign.py | 31 +
examples/signverify.py | 78 +
examples/simple.py | 52 +
examples/t-edit.py | 59 +
examples/testCMSgetkey.py | 45 +
examples/verifydetails.py | 100 +
gpgme-h-clean.py | 42 +
gpgme.i | 267 ++
helpers.c | 154 +
helpers.h | 36 +
pyme/COPYING | 340 --
pyme/COPYING.LESSER | 510 ---
pyme/ChangeLog | 802 -----
pyme/INSTALL | 15 -
pyme/Makefile | 104 -
pyme/__init__.py | 137 +
pyme/callbacks.py | 47 +
pyme/constants/__init__.py | 7 +
pyme/constants/data/__init__.py | 4
+
pyme/constants/data/encoding.py | 20 +
pyme/constants/event.py | 20 +
pyme/constants/import.py | 20 +

```



```

pyme/constants/keylist/__init__.py | 4 +
pyme/constants/keylist/mode.py | 20 +
pyme/constants/md.py | 20 +
pyme/constants/pk.py | 20 +
pyme/constants/protocol.py | 20 +
pyme/constants/sig/__init__.py | 4 +
pyme/constants/sig/mode.py | 20 +
pyme/constants/sigsum.py | 20 +
pyme/constants/status.py | 20 +
pyme/constants/validity.py | 20 +
pyme/core.py | 463 +++
pyme/debian/README.Debian | 6 -
pyme/debian/changelog | 93 -
pyme/debian/control | 34 -
pyme/debian/copyright | 25 -
pyme/debian/docs | 2 -
pyme/debian/examples |
2 -
pyme/debian/rules | 99 -
pyme/errors.py | 46 +
pyme/examples/PyGtkGpgKeys.glade | 1394 -----
pyme/examples/PyGtkGpgKeys.gladep | 8 -
pyme/examples/PyGtkGpgKeys.py | 663 ----
pyme/examples/delkey.py | 34 -
pyme/examples/encrypt-to-all.py | 65 -
pyme/examples/exportimport.py | 75 -
pyme/examples/genkey.py | 45 -
pyme/examples/inter-edit.py | 57 -
pyme/examples/pygpa.glade | 5546 -----
pyme/examples/pygpa.py | 1457 -----
pyme/examples/sign.py | 31 -
pyme/examples/signverify.py | 78 -
pyme/examples/simple.py | 52 -
pyme/examples/t-edit.py | 59 -
pyme/examples/testCMSgetkey.py | 45 -
pyme/examples/verifydetails.py | 100 -
pyme/gpgme-h-clean.py | 42 -
pyme/gpgme.i | 267 --
pyme/helpers.c | 154 -
pyme/helpers.h | 36 -
pyme/pyme/__init__.py | 137 -
pyme/pyme/callbacks.py | 47 -
pyme/pyme/constants/__init__.py | 7 -
pyme/pyme/constants/data/__init__.py | 4 -
pyme/pyme/constants/data/encoding.py | 20 -
pyme/pyme/constants/event.py | 20 -
pyme/pyme/constants/import.py | 20 -
pyme/pyme/constants/keylist/__init__.py | 4 -

```

```

pyme/pyme/constants/keylist/mode.py | 20 -
pyme/pyme/constants/md.py          | 20 -
pyme/pyme/constants/pk.py          | 20 -
pyme/pyme/constants/protocol.py     | 20 -
pyme/pyme/constants/sig/__init__.py | 4 -
pyme/pyme/constants/sig/mode.py     | 20 -
pyme/pyme/constants/sigsum.py       | 20 -
pyme/pyme/constants/status.py       | 20 -
pyme/pyme/constants/validity.py     | 20
-
pyme/pyme/core.py                   | 463 ---
pyme/pyme/errors.py                 | 46 -
pyme/pyme/util.py                   | 72 -
pyme/pyme/version.py                | 41 -
pyme/setup.py                       | 99 -
pyme/util.py                         | 72 +
pyme/version.py                     | 41 +
setup.py                             | 99 +
108 files changed, 13384 insertions(+), 13384 deletions(-)

```

commit 8148cdd424c434e833ce427612ea8c89abc6e41c

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Sat May 3 18:58:52 2014 +0100

removing pyme-web

```

pyme-web/Makefile                   | 15 -
pyme-web/default.css                 | 37 --
pyme-web/doc/gpgme/ASCII-Armor.html | 57 ---
pyme-web/doc/gpgme/Advanced-Key-Editing.html | 98 ----
pyme-web/doc/gpgme/Algorithms.html   | 47 --
pyme-web/doc/gpgme/Building-the-Source.html | 82 ----
.../doc/gpgme/Callback-Based-Data-Buffers.html | 148 -----
pyme-web/doc/gpgme/Cancellation.html | 67 ---
pyme-web/doc/gpgme/Concept-Index.html | 186 -----
pyme-web/doc/gpgme/Context-Attributes.html | 52 --
pyme-web/doc/gpgme/Contexts.html     | 61 ---
pyme-web/doc/gpgme/Creating-Contexts.html | 49 --
pyme-web/doc/gpgme/Creating-Data-Buffers.html | 47 --
pyme-web/doc/gpgme/Creating-a-Signature.html | 143 -----
pyme-web/doc/gpgme/Crypto-Engine.html | 79 ---
pyme-web/doc/gpgme/Crypto-Operations.html | 67 ---
.../doc/gpgme/Cryptographic-Message-Syntax.html | 42 --
.../doc/gpgme/Data-Buffer-I_002fO-Operations.html | 104 ----
pyme-web/doc/gpgme/Data-Buffer-Meta_002dData.html | 100 ----
pyme-web/doc/gpgme/Decrypt-and-Verify.html | 79 ---
pyme-web/doc/gpgme/Decrypt.html      | 123 -----
pyme-web/doc/gpgme/Deleting-Keys.html | 67

```

|                                                    |           |
|----------------------------------------------------|-----------|
| ---                                                |           |
| pyme-web/doc/gpgme/Destroying-Contexts.html        | 46 --     |
| pyme-web/doc/gpgme/Destroying-Data-Buffers.html    | 70 ---    |
| pyme-web/doc/gpgme/Encrypt.html                    | 45 --     |
| pyme-web/doc/gpgme/Encrypting-a-Plaintext.html     | 147 ----- |
| pyme-web/doc/gpgme/Engine-Configuration.html       | 65 ---    |
| pyme-web/doc/gpgme/Engine-Information.html         | 119 ----- |
| pyme-web/doc/gpgme/Engine-Version-Check.html       | 48 --     |
| pyme-web/doc/gpgme/Error-Codes.html                | 133 ----- |
| pyme-web/doc/gpgme/Error-Handling.html             | 72 ---    |
| pyme-web/doc/gpgme/Error-Sources.html              | 89 ----   |
| pyme-web/doc/gpgme/Error-Strings.html              | 80 ---    |
| pyme-web/doc/gpgme/Error-Values.html               | 159 ----- |
| pyme-web/doc/gpgme/Exchanging-Data.html            | 58 ---    |
| pyme-web/doc/gpgme/Exporting-Keys.html             | 101 ----  |
| pyme-web/doc/gpgme/Features.html                   | 59 ---    |
| pyme-web/doc/gpgme/File-Based-Data-Buffers.html    | 74        |
| ---                                                |           |
| pyme-web/doc/gpgme/Function-and-Data-Index.html    | 229 ----- |
| pyme-web/doc/gpgme/Generating-Keys.html            | 144 ----- |
| pyme-web/doc/gpgme/Getting-Started.html            | 55 ---    |
| pyme-web/doc/gpgme/Hash-Algorithms.html            | 59 ---    |
| pyme-web/doc/gpgme/Header.html                     | 53 --     |
| .../doc/gpgme/I_002fO-Callback-Example-GDK.html    | 85 ----   |
| .../gpgme/I_002fO-Callback-Example-GTK_002b.html   | 86 ----   |
| .../doc/gpgme/I_002fO-Callback-Example-Qt.html     | 99 ----   |
| pyme-web/doc/gpgme/I_002fO-Callback-Example.html   | 259 ----- |
| pyme-web/doc/gpgme/I_002fO-Callback-Interface.html | 142 ----- |
| pyme-web/doc/gpgme/Importing-Keys.html             | 171 ----- |
| pyme-web/doc/gpgme/Included-Certificates.html      | 70 ---    |
| pyme-web/doc/gpgme/Information-About-Keys.html     | 207 ----- |
| .../doc/gpgme/Information-About-Trust-Items.html   | 75 ---    |
| pyme-web/doc/gpgme/Introduction.html               | 53 --     |
| pyme-web/doc/gpgme/Key-Listing-Mode.html           | 99 ----   |
| pyme-web/doc/gpgme/Key-Management.html             | 260 ----- |
| pyme-web/doc/gpgme/Key-Signatures.html             | 130 ----- |
| .../doc/gpgme/Largefile-Support-_0028LFS_0029.html | 110 ----- |
| pyme-web/doc/gpgme/Library-Copying.html            | 542 ----- |
| pyme-web/doc/gpgme/Library-Version-Check.html      | 97 ----   |
| pyme-web/doc/gpgme/Listing-Keys.html               | 204 ----- |
| pyme-web/doc/gpgme/Listing-Trust-Items.html        | 88 ----   |
| pyme-web/doc/gpgme/Locale.html                     | 69 ---    |
| pyme-web/doc/gpgme/Manipulating-Data-Buffers.html  | 45 --     |
| pyme-web/doc/gpgme/Manipulating-Keys.html          | 63 ---    |
| pyme-web/doc/gpgme/Manipulating-Trust-Items.html   | 62 ---    |
| pyme-web/doc/gpgme/Memory-Based-Data-Buffers.html  | 107 ----  |
| pyme-web/doc/gpgme/Multi-Threading.html            | 93 ----   |

|                                                    |           |
|----------------------------------------------------|-----------|
| pyme-web/doc/gpgme/OpenPGP.html                    | 44 --     |
| pyme-web/doc/gpgme/Overview.html                   | 57 ---    |
| pyme-web/doc/gpgme/Passphrase-Callback.html        | 101 ----  |
| pyme-web/doc/gpgme/Preparation.html                | 54 --     |
| pyme-web/doc/gpgme/Progress-Meter-Callback.html    | 80 ---    |
| pyme-web/doc/gpgme/Protocol-Selection.html         | 60 ---    |
| pyme-web/doc/gpgme/Protocols-and-Engines.html      | 82 ----   |
| pyme-web/doc/gpgme/Public-Key-Algorithms.html      | 74 ---    |
| .../doc/gpgme/Registering-I_002fO-Callbacks.html   | 81 ---    |
| pyme-web/doc/gpgme/Run-Control.html                | 53 --     |
| pyme-web/doc/gpgme/Selecting-Signers.html          | 64 ---    |
| pyme-web/doc/gpgme/Sign.html                       | 50 --     |
| pyme-web/doc/gpgme/Signal-Handling.html            | 61 ---    |
| pyme-web/doc/gpgme/Signature-Notation-Data.html    | 85 ----   |
| pyme-web/doc/gpgme/Text-Mode.html                  | 63 ---    |
| pyme-web/doc/gpgme/Trust-Item-Management.html      | 68 ---    |
| pyme-web/doc/gpgme/Using-Automake.html             | 74 ---    |
| pyme-web/doc/gpgme/Using-External-Event-Loops.html | 74 ---    |
| pyme-web/doc/gpgme/Using-Libtool.html              | 44 --     |
| pyme-web/doc/gpgme/Verify.html                     | 492 ----- |
| pyme-web/doc/gpgme/Waiting-For-Completion.html     | 77 ---    |
| pyme-web/doc/gpgme/index.html                      | 169 ----- |
| pyme-web/doc/pyme/index.html                       | 164 ----- |
| pyme-web/doc/pyme/pyme.callbacks.html              | 42 --     |
| .../doc/pyme/pyme.constants.data.encoding.html     | 48 --     |
| pyme-web/doc/pyme/pyme.constants.data.html         | 29 --     |
| pyme-web/doc/pyme/pyme.constants.event.html        | 48 --     |
| pyme-web/doc/pyme/pyme.constants.html              | 39 --     |
| pyme-web/doc/pyme/pyme.constants.import.html       | 49 --     |
| pyme-web/doc/pyme/pyme.constants.keylist.html      | 29 --     |
| pyme-web/doc/pyme/pyme.constants.keylist.mode.html | 49 --     |
| pyme-web/doc/pyme/pyme.constants.md.html           | 58 ---    |
| pyme-web/doc/pyme/pyme.constants.pk.html           | 50 --     |
| pyme-web/doc/pyme/pyme.constants.protocol.html     | 48 --     |
| pyme-web/doc/pyme/pyme.constants.sig.html          | 29 --     |
| pyme-web/doc/pyme/pyme.constants.sig.mode.html     | 47 --     |
| pyme-web/doc/pyme/pyme.constants.sigsum.html       | 55 ---    |
| pyme-web/doc/pyme/pyme.constants.status.html       | 126 ----  |
| pyme-web/doc/pyme/pyme.constants.validity.html     | 50 --     |
| pyme-web/doc/pyme/pyme.core.html                   | 277 ----- |
| pyme-web/doc/pyme/pyme.errors.html                 | 82 ----   |
| pyme-web/doc/pyme/pyme.html                        | 164 ----- |
| pyme-web/doc/pyme/pyme.util.html                   | 81 ---    |
| pyme-web/doc/pyme/pyme.version.html                | 37 --     |
| pyme-web/index.html                                | 72 ---    |

112 files changed, 10551 deletions(-)

commit 684d95feb7e10e538a56fb1b27f1456111bacb60  
Author: Martin Albrecht <martinralbrecht@googlemail.com>  
Date: Mon Jan 6 17:44:20 2014 +0100

fixing op\_export\_keys()

the conversion of gpgme\_key\_t [] was restricted to gpgme\_key\_t [] with the  
name recv, i.e. only  
the use-cases of encryption were covered.

see: [http://sourceforge.net/mailarchive/forum.php?forum\\_name=pyme-help&max\\_rows=25&style=nested&viewmonth=201309](http://sourceforge.net/mailarchive/forum.php?forum_name=pyme-help&max_rows=25&style=nested&viewmonth=201309)

pyme/gpgme.i | 6 +++---  
1 file changed, 3 insertions(+), 3 deletions(-)

commit 658d23b95110d21eeb50abf4e74701a667521a88  
Author: Martin Albrecht <martinralbrecht@googlemail.com>  
Date: Mon Jan 6 17:41:33 2014 +0100

deleting CVSROOT

CVSROOT/checkoutlist | 13 -----  
CVSROOT/commitinfo | 15 -----  
CVSROOT/config | 21 -----  
CVSROOT/cvswrappers | 19 -----  
CVSROOT/editinfo | 21 -----  
CVSROOT/loginfo | 26 -----  
CVSROOT/modules | 26 -----  
CVSROOT/notify | 12 -----  
CVSROOT/rcsinfo | 13 -----  
CVSROOT/taginfo | 20 -----  
CVSROOT/verifymsg | 21 -----  
11 files changed, 207 deletions(-)

commit 576b555499c094c4786d42de9e59aa9826009b89  
Author:  
convert-repo <devnull@localhost>  
Date: Mon Jan 6 15:22:44 2014 +0000

update tags

commit 2dcf0c5b702eb5a18c66ff1e42a72eaa7427af1d  
Author: belyi <devnull@localhost>  
Date: Wed Nov 26 02:38:33 2008 +0000

Move Windows specific fix from helpers.c to helpers.h so that it works for edit callback as well as for the passphrase one.

```
pyme/helpers.c | 5 ----  
pyme/helpers.h | 5 +++++  
2 files changed, 5 insertions(+), 5 deletions(-)
```

```
commit 42a035f2ef62470fea7a7f8ee33a1297fa90a603  
Author: belyi <devnull@localhost>  
Date: Mon Nov 24 21:44:30 2008 +0000
```

Update the way build directives are constructed on MinGW to have a bit more robust. Update PyMe build version to 0.8.1 in version.py

```
pyme/pyme/version.py | 2 +-  
pyme/setup.py      | 10 ++++++---  
2 files changed, 9 insertions(+), 3 deletions(-)
```

```
commit 3aaa20fbcba17066c9ffd580f5209946022793a2  
Author: belyi <devnull@localhost>  
Date: Mon Nov 24 06:57:11 2008 +0000
```

Update changelog

```
pyme/debian/changelog  
| 5 ++++-  
1 file changed, 4 insertions(+), 1 deletion(-)
```

```
commit 689ff46b2550547e3883f809a6dc40c22c3e137e  
Author: belyi <devnull@localhost>  
Date: Mon Nov 24 06:50:41 2008 +0000
```

Fix hang problem on Windows when password is written to a filehandle. Fix the way path is constructed on MinGW platform.

```
pyme/helpers.c | 5 +++++  
pyme/setup.py | 4 +++-  
2 files changed, 7 insertions(+), 2 deletions(-)
```

```
commit 852a60d541d66cb56f40378182b976fd87a02c46  
Author: belyi <devnull@localhost>  
Date: Sun Nov 23 04:31:31 2008 +0000
```

Add Bernard's example testCMSgetkey.py and his updates for verifydetails.py

```
pyme/examples/testCMSgetkey.py | 45 +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++  
pyme/examples/verifydetails.py | 43 ++++++++++++++++++++++++++++++++++++++-----
```

2 files changed, 77 insertions(+), 11 deletions(-)

commit f080527d9184f3360f0a8ef6136b9a188d8e7d2a  
Author: belyi <devnull@localhost>  
Date: Thu May 29 18:29:37 2008 +0000

Remove debian packaging for python2.3  
since it is removed from both  
testing and unstable dists.  
Update docs build target to have correct PYTHONPATH set.

pyme/Makefile | 2 +-  
pyme/debian/changelog | 4 +++-  
pyme/debian/control | 4 +++-  
pyme/debian/rules | 2 --  
4 files changed, 6 insertions(+), 6 deletions(-)

commit c25d133fcbadf3c7f6e655586b4a05d6e3cf6f0b  
Author: belyi <devnull@localhost>  
Date: Thu Apr 3 13:37:12 2008 +0000

Forgot to adjust mainText margin. Doing it now.

pyme-web/default.css | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 897286a54a32336d060cd03305cdec7905f34f1  
Author: belyi <devnull@localhost>  
Date: Thu Apr 3 13:00:11 2008 +0000

Fix an error in default.css and make index.html "Standards Compliant".

pyme-web/default.css | 2 +-  
pyme-web/index.html | 7 ++++---  
2 files changed, 5 insertions(+), 4 deletions(-)

commit 4e049212bd214449cc0ba1ce06e00782783f328a  
Author: belyi <devnull@localhost>  
Date: Thu Apr 3 12:38:42 2008 +0000

Adjust spacing  
between links.

pyme-web/default.css | 9 ++++++---  
1 file changed, 6 insertions(+), 3 deletions(-)

commit cb2bddfbd77483b1deb14f2eab0715a03dd33fcd  
Author: belyi <devnull@localhost>

Date: Wed Apr 2 22:50:21 2008 +0000

Make style a big more IE friendly.

pyme-web/default.css | 15 ++++++++-----  
1 file changed, 11 insertions(+), 4 deletions(-)

commit ad66f0a1bb01b46baac328e9fee439b35a60c232

Author: belyi <devnull@localhost>

Date: Wed Apr 2 11:58:32 2008 +0000

Make GPGME documentation a bit more web friendly on the index.html page.

pyme-web/doc/gpgme/Algorithms.html | 2 +-  
pyme-web/doc/gpgme/Concept-Index.html | 2 +-  
pyme-web/doc/gpgme/Contexts.html | 2 +-  
pyme-web/doc/gpgme/Error-Handling.html | 2 +-  
pyme-web/doc/gpgme/Exchanging-Data.html | 2 +-  
pyme-web/doc/gpgme/Function-and-Data-Index.html | 2 +-  
pyme-web/doc/gpgme/Introduction.html | 4 +-  
pyme-web/doc/gpgme/Library-Copying.html  
| 2 +-  
pyme-web/doc/gpgme/Preparation.html | 2 +-  
pyme-web/doc/gpgme/Protocols-and-Engines.html | 2 +-  
pyme-web/doc/gpgme/index.html | 229 +-----  
11 files changed, 12 insertions(+), 239 deletions(-)

commit 4f57c0ccb049d4442e7732e2d1d05dabffd2a21d

Author: belyi <devnull@localhost>

Date: Wed Apr 2 06:12:57 2008 +0000

Add missing core.set\_locale() to set default locale for contexts.

pyme/debian/changelog | 2 +-  
pyme/pyme/core.py | 4 ++++  
2 files changed, 5 insertions(+), 1 deletion(-)

commit acf7ead3dea8590cf9fe86b67bb125837ad6ed4f

Author: belyi <devnull@localhost>

Date: Wed Apr 2 05:50:24 2008 +0000

Avoid leaks caused by keys.  
Add set/get methods for engine info.

pyme/debian/changelog | 10 ++++++++  
pyme/pyme/core.py | 24 ++++++++  
2 files changed, 34 insertions(+)



commit df4a2fb518adbb6420d95ce74af212c87abff7e7

Author: belyi <devnull@localhost>

Date: Wed Apr 2

04:04:41 2008 +0000

Update index.html to reflect new versions on the web.

```
pyme-web/Makefile          | 3 +-  
pyme-web/doc/gpgme/index.html | 4 +---  
pyme-web/index.html        | 4 ++--  
3 files changed, 5 insertions(+), 6 deletions(-)
```

commit bd3ffc9bdf98d6aafde6b689c6c8215fa468612d

Author: belyi <devnull@localhost>

Date: Wed Apr 2 04:01:04 2008 +0000

Update PyMe documentation to match 0.8.0 version of the package.

```
pyme-web/doc/pyme/index.html          | 14 ++++-----  
pyme-web/doc/pyme/pyme.constants.keylist.mode.html | 1 +  
pyme-web/doc/pyme/pyme.constants.protocol.html    | 4 +-  
pyme-web/doc/pyme/pyme.constants.status.html     | 9 ++++++  
pyme-web/doc/pyme/pyme.core.html              | 36 ++++++++-----  
pyme-web/doc/pyme/pyme.errors.html            | 8 +++--  
pyme-web/doc/pyme/pyme.html                  | 14 ++++-----  
pyme-web/doc/pyme/pyme.util.html             | 17 ++++++++--  
pyme-web/doc/pyme/pyme.version.html          | 14 ++++-----  
9 files changed, 82 insertions(+), 35 deletions(-)
```

commit 6973a69a317608a0d0661590d701f4e3f3a21b32

Author: belyi <devnull@localhost>

Date: Wed Apr 2 02:35:24 2008 +0000

Have a fix for Contents being put onto 'Function and Data Index' page.

```
pyme-web/doc/gpgme/Concept-Index.html      | 2 +-  
pyme-web/doc/gpgme/Function-and-Data-Index.html | 153 +-----  
pyme-web/doc/gpgme/index.html              | 154 ++++++++-----  
3 files changed, 155 insertions(+), 154 deletions(-)
```

commit 086315964cbc2abad1187f306dcb9c72ac3257f3

Author: belyi <devnull@localhost>

Date: Wed Apr 2 01:00:29 2008 +0000

Update GPGME documentation. It's for v1.1.6 now.

```
pyme-web/doc/gpgme/ASCII-Armor.html        | 57 ++
```

pyme-web/doc/gpgme/Advanced-Key-Editing.html | 98 +++  
 pyme-web/doc/gpgme/Algorithms.html | 47 ++  
 pyme-web/doc/gpgme/Building-the-Source.html | 82 +++  
 .../doc/gpgme/Callback-Based-Data-Buffers.html  
 | 148 +++++  
 pyme-web/doc/gpgme/Cancellation.html | 67 ++  
 pyme-web/doc/gpgme/Concept-Index.html | 186 ++++++  
 pyme-web/doc/gpgme/Context-Attributes.html | 52 ++  
 pyme-web/doc/gpgme/Contexts.html | 61 ++  
 pyme-web/doc/gpgme/Creating-Contexts.html | 49 ++  
 pyme-web/doc/gpgme/Creating-Data-Buffers.html | 47 ++  
 pyme-web/doc/gpgme/Creating-a-Signature.html | 143 +++++  
 pyme-web/doc/gpgme/Crypto-Engine.html | 79 +++  
 pyme-web/doc/gpgme/Crypto-Operations.html | 67 ++  
 .../doc/gpgme/Cryptographic-Message-Syntax.html | 42 ++  
 .../doc/gpgme/Data-Buffer-I\_002fO-Operations.html | 104 +++++  
 pyme-web/doc/gpgme/Data-Buffer-Meta\_002dData.html | 100 +++  
 pyme-web/doc/gpgme/Decrypt-and-Verify.html | 79 +++  
 pyme-web/doc/gpgme/Decrypt.html | 123 ++++  
 pyme-web/doc/gpgme/Deleting-Keys.html | 67 ++  
 pyme-web/doc/gpgme/Destroying-Contexts.html  
 | 46 ++  
 pyme-web/doc/gpgme/Destroying-Data-Buffers.html | 70 +++  
 pyme-web/doc/gpgme/Encrypt.html | 45 ++  
 pyme-web/doc/gpgme/Encrypting-a-Plaintext.html | 147 +++++  
 pyme-web/doc/gpgme/Engine-Configuration.html | 65 ++  
 pyme-web/doc/gpgme/Engine-Information.html | 119 +++++  
 pyme-web/doc/gpgme/Engine-Version-Check.html | 48 ++  
 pyme-web/doc/gpgme/Error-Codes.html | 133 +++++  
 pyme-web/doc/gpgme/Error-Handling.html | 72 +++  
 pyme-web/doc/gpgme/Error-Sources.html | 89 +++  
 pyme-web/doc/gpgme/Error-Strings.html | 80 +++  
 pyme-web/doc/gpgme/Error-Values.html | 159 +++++  
 pyme-web/doc/gpgme/Exchanging-Data.html | 58 ++  
 pyme-web/doc/gpgme/Exporting-Keys.html | 101 +++  
 pyme-web/doc/gpgme/Features.html | 59 ++  
 pyme-web/doc/gpgme/File-Based-Data-Buffers.html | 74 +++  
 pyme-web/doc/gpgme/Function-and-Data-Index.html  
 | 380 ++++++  
 pyme-web/doc/gpgme/Generating-Keys.html | 144 +++++  
 pyme-web/doc/gpgme/Getting-Started.html | 55 ++  
 pyme-web/doc/gpgme/Hash-Algorithms.html | 59 ++  
 pyme-web/doc/gpgme/Header.html | 53 ++  
 .../doc/gpgme/I\_002fO-Callback-Example-GDK.html | 85 +++  
 .../gpgme/I\_002fO-Callback-Example-GTK\_002b.html | 86 +++  
 .../doc/gpgme/I\_002fO-Callback-Example-Qt.html | 99 +++  
 pyme-web/doc/gpgme/I\_002fO-Callback-Example.html | 259 ++++++  
 pyme-web/doc/gpgme/I\_002fO-Callback-Interface.html | 142 +++++

pyme-web/doc/gpgme/Importing-Keys.html | 171 +++++  
 pyme-web/doc/gpgme/Included-Certificates.html | 70 +++  
 pyme-web/doc/gpgme/Information-About-Keys.html | 207 +++++++  
 ../doc/gpgme/Information-About-Trust-Items.html | 75 +++  
 pyme-web/doc/gpgme/Introduction.html | 53 ++  
 pyme-web/doc/gpgme/Key-Listing-Mode.html | 99 +++  
 pyme-web/doc/gpgme/Key-Management.html  
 | 260 ++++++++  
 pyme-web/doc/gpgme/Key-Signatures.html | 130 ++++  
 ../doc/gpgme/Largefile-Support-\_0028LFS\_0029.html | 110 ++++  
 pyme-web/doc/gpgme/Library-Copying.html | 542 ++++++++  
 pyme-web/doc/gpgme/Library-Version-Check.html | 97 +++  
 pyme-web/doc/gpgme/Listing-Keys.html | 204 ++++++  
 pyme-web/doc/gpgme/Listing-Trust-Items.html | 88 +++  
 pyme-web/doc/gpgme/Locale.html | 69 +++  
 pyme-web/doc/gpgme/Manipulating-Data-Buffers.html | 45 ++  
 pyme-web/doc/gpgme/Manipulating-Keys.html | 63 ++  
 pyme-web/doc/gpgme/Manipulating-Trust-Items.html | 62 ++  
 pyme-web/doc/gpgme/Memory-Based-Data-Buffers.html | 107 ++++  
 pyme-web/doc/gpgme/Multi-Threading.html | 93 +++  
 pyme-web/doc/gpgme/OpenPGP.html | 44 ++  
 pyme-web/doc/gpgme/Overview.html | 57 ++  
 pyme-web/doc/gpgme/Passphrase-Callback.html | 101 +++  
 pyme-web/doc/gpgme/Preparation.html  
 | 54 ++  
 pyme-web/doc/gpgme/Progress-Meter-Callback.html | 80 +++  
 pyme-web/doc/gpgme/Protocol-Selection.html | 60 ++  
 pyme-web/doc/gpgme/Protocols-and-Engines.html | 82 +++  
 pyme-web/doc/gpgme/Public-Key-Algorithms.html | 74 +++  
 ../doc/gpgme/Registering-I\_002fO-Callbacks.html | 81 +++  
 pyme-web/doc/gpgme/Run-Control.html | 53 ++  
 pyme-web/doc/gpgme/Selecting-Signers.html | 64 ++  
 pyme-web/doc/gpgme/Sign.html | 50 ++  
 pyme-web/doc/gpgme/Signal-Handling.html | 61 ++  
 pyme-web/doc/gpgme/Signature-Notation-Data.html | 85 +++  
 pyme-web/doc/gpgme/Text-Mode.html | 63 ++  
 pyme-web/doc/gpgme/Trust-Item-Management.html | 68 ++  
 pyme-web/doc/gpgme/Using-Automake.html | 74 +++  
 pyme-web/doc/gpgme/Using-External-Event-Loops.html | 74 +++  
 pyme-web/doc/gpgme/Using-Libtool.html | 44 ++  
 pyme-web/doc/gpgme/Verify.html  
 | 492 ++++++++  
 pyme-web/doc/gpgme/Waiting-For-Completion.html | 77 +++  
 pyme-web/doc/gpgme/gpgme.html | 251 -----  
 pyme-web/doc/gpgme/gpgme\_1.html | 76 ---  
 pyme-web/doc/gpgme/gpgme\_10.html | 61 --  
 pyme-web/doc/gpgme/gpgme\_11.html | 130 ----  
 pyme-web/doc/gpgme/gpgme\_12.html | 82 ---

|                                  |           |
|----------------------------------|-----------|
| pyme-web/doc/gpgme/gpgme_13.html | 130 ----  |
| pyme-web/doc/gpgme/gpgme_14.html | 108 ----  |
| pyme-web/doc/gpgme/gpgme_15.html | 69 ---    |
| pyme-web/doc/gpgme/gpgme_16.html | 169 ----- |
| pyme-web/doc/gpgme/gpgme_17.html | 63 --     |
| pyme-web/doc/gpgme/gpgme_18.html | 63 --     |
| pyme-web/doc/gpgme/gpgme_19.html | 66 --     |
| pyme-web/doc/gpgme/gpgme_2.html  | 79 ---    |
| pyme-web/doc/gpgme/gpgme_20.html | 120 ----  |
| pyme-web/doc/gpgme/gpgme_21.html | 102 ---   |
| pyme-web/doc/gpgme/gpgme_22.html | 108 ----  |
| pyme-web/doc/gpgme/gpgme_23.html | 237 ----- |
| pyme-web/doc/gpgme/gpgme_24.html | 154 ----- |
| pyme-web/doc/gpgme/gpgme_25.html | 248 ----- |
| pyme-web/doc/gpgme/gpgme_26.html | 107 ----  |
| pyme-web/doc/gpgme/gpgme_27.html | 80 ---    |
| pyme-web/doc/gpgme/gpgme_28.html | 67 --     |
| pyme-web/doc/gpgme/gpgme_29.html | 164 ----- |
| pyme-web/doc/gpgme/gpgme_3.html  | 86 ---    |
| pyme-web/doc/gpgme/gpgme_30.html | 106 ----  |
| pyme-web/doc/gpgme/gpgme_31.html | 232 ----- |
| pyme-web/doc/gpgme/gpgme_32.html | 85 ---    |
| pyme-web/doc/gpgme/gpgme_33.html | 223 ----- |
| pyme-web/doc/gpgme/gpgme_34.html | 83 ---    |
| pyme-web/doc/gpgme/gpgme_35.html | 70 ---    |
| pyme-web/doc/gpgme/gpgme_36.html | 63 --     |
| pyme-web/doc/gpgme/gpgme_37.html | 66 --     |
| pyme-web/doc/gpgme/gpgme_38.html | 86 ---    |
| pyme-web/doc/gpgme/gpgme_39.html | 79 ---    |
| pyme-web/doc/gpgme/gpgme_4.html  | 83 ---    |
| pyme-web/doc/gpgme/gpgme_40.html | 89 ---    |
| pyme-web/doc/gpgme/gpgme_41.html | 99 ---    |
| pyme-web/doc/gpgme/gpgme_42.html | 144 ----- |
| pyme-web/doc/gpgme/gpgme_43.html | 152 ----- |
| pyme-web/doc/gpgme/gpgme_44.html | 112 ----  |
| pyme-web/doc/gpgme/gpgme_45.html | 101 ---   |
| pyme-web/doc/gpgme/gpgme_46.html | 459 ----- |
| pyme-web/doc/gpgme/gpgme_47.html | 292 ----- |
| pyme-web/doc/gpgme/gpgme_48.html | 363 ----- |
| pyme-web/doc/gpgme/gpgme_49.html | 209 ----- |
| pyme-web/doc/gpgme/gpgme_5.html  | 74 ---    |
| pyme-web/doc/gpgme/gpgme_50.html | 88 ---    |
| pyme-web/doc/gpgme/gpgme_51.html | 208 ----- |
| pyme-web/doc/gpgme/gpgme_52.html | 154 ----- |
| pyme-web/doc/gpgme/gpgme_53.html | 291 ----- |

|                                   |                 |
|-----------------------------------|-----------------|
| pyme-web/doc/gpgme/gpgme_54.html  | 91 ---          |
| pyme-web/doc/gpgme/gpgme_55.html  | 107 ----        |
| pyme-web/doc/gpgme/gpgme_56.html  | 140 ----        |
| pyme-web/doc/gpgme/gpgme_57.html  | 106 ----        |
| pyme-web/doc/gpgme/gpgme_58.html  | 89 ---          |
| pyme-web/doc/gpgme/gpgme_59.html  | 97 ---          |
| pyme-web/doc/gpgme/gpgme_6.html   | 77 ---          |
| pyme-web/doc/gpgme/gpgme_60.html  | 142 ----        |
| pyme-web/doc/gpgme/gpgme_61.html  | 626 -----       |
| pyme-web/doc/gpgme/gpgme_62.html  | 107 ----        |
| pyme-web/doc/gpgme/gpgme_63.html  | 67 --           |
| pyme-web/doc/gpgme/gpgme_64.html  | 95 ---          |
| pyme-web/doc/gpgme/gpgme_65.html  | 233 -----       |
| pyme-web/doc/gpgme/gpgme_66.html  | 65 --           |
| pyme-web/doc/gpgme/gpgme_67.html  | 220 -----       |
| pyme-web/doc/gpgme/gpgme_68.html  | 75 ---          |
| pyme-web/doc/gpgme/gpgme_69.html  | 119 ----        |
| pyme-web/doc/gpgme/gpgme_7.html   | 123 ----        |
| pyme-web/doc/gpgme/gpgme_70.html  | 107 ----        |
| pyme-web/doc/gpgme/gpgme_71.html  | 218 -----       |
| pyme-web/doc/gpgme/gpgme_72.html  | 134 ----        |
| pyme-web/doc/gpgme/gpgme_73.html  | 299 -----       |
| pyme-web/doc/gpgme/gpgme_74.html  | 103 ----        |
| pyme-web/doc/gpgme/gpgme_75.html  | 104 ----        |
| pyme-web/doc/gpgme/gpgme_76.html  | 118 ----        |
| pyme-web/doc/gpgme/gpgme_77.html  | 95 ---          |
| pyme-web/doc/gpgme/gpgme_78.html  | 71 ---          |
| pyme-web/doc/gpgme/gpgme_79.html  | 686 -----       |
| pyme-web/doc/gpgme/gpgme_8.html   | 155 ----        |
| pyme-web/doc/gpgme/gpgme_80.html  | 120 ----        |
| pyme-web/doc/gpgme/gpgme_81.html  | 278 -----       |
| pyme-web/doc/gpgme/gpgme_82.html  | 272 -----       |
| pyme-web/doc/gpgme/gpgme_83.html  | 180 -----       |
| pyme-web/doc/gpgme/gpgme_84.html  | 99 ---          |
| pyme-web/doc/gpgme/gpgme_9.html   | 104 ----        |
| pyme-web/doc/gpgme/gpgme_abt.html | 206 -----       |
| pyme-web/doc/gpgme/gpgme_fot.html | 53 --           |
| pyme-web/doc/gpgme/gpgme_ovr.html | 68 --           |
| pyme-web/doc/gpgme/gpgme_toc.html | 247 -----       |
| pyme-web/doc/gpgme/index.html     | 497 ++++++----- |

176 files changed, 9054 insertions(+), 13378 deletions(-)

commit 163c1053dc761682f5a4231da163bdd0ff7162d7

Author: belyi <devnull@localhost>

Date:

Tue Apr 1 21:14:29 2008 +0000

Update Home page to be a bit more visitor friendly.

```
pyme-web/Makefile | 2 +-
pyme-web/default.css | 27 ++++++
pyme-web/index.html | 70 ++++++-----
3 files changed, 75 insertions(+), 24 deletions(-)
```

```
commit 05db2d17d8fda0ab8c948bbdc0643dfc1466830d
Author: belyi <devnull@localhost>
Date: Sun Mar 30 21:27:38 2008 +0000
```

Add a rule to build binary distribution for Windows.

```
pyme/Makefile | 16 ++++++
1 file changed, 14 insertions(+), 2 deletions(-)
```

```
commit 57acb1089f5f8c24323ee62fc0a7f492a496b9c0
Author: belyi <devnull@localhost>
Date: Sat Mar 29 22:50:11 2008 +0000
```

Switch to using central location for python files (pycentral)  
Update docs rule to fix location of the python source files.

```
pyme/Makefile | 5 +++-
pyme/debian/changelog | 4 +-
pyme/debian/control | 74 +++++-----
pyme/debian/dirs
| 2 --
pyme/debian/docs | 1 +
pyme/debian/postinst.ex | 48 -----
pyme/debian/postrm.ex | 38 -----
pyme/debian/preinst.ex | 44 -----
pyme/debian/prerm.ex | 39 -----
pyme/debian/rules | 50 +++++-----
pyme/debian/setup.cfg-2.2 | 8 ----
pyme/debian/setup.cfg-2.3 | 8 ----
pyme/debian/setup.cfg-2.4 | 8 ----
pyme/gpgme-h-clean.py | 2 +-
pyme/pyme/core.py | 2 +-
pyme/pyme/util.py | 2 +-
16 files changed, 28 insertions(+), 307 deletions(-)
```

```
commit 2b56fd10517cfbcffaa4ba98d8ea42f40f0d38a9
Author: belyi <devnull@localhost>
Date: Sun Mar 23 02:01:12 2008 +0000
```

Turn SWIG's autodoc feature on. Ignore 'next' in the types which are lists now.  
Use new style for class declarations. Specify None as a default value for

core.check\_version() method. Update version.py for 0.8.0 version.

pyme/examples/pygpa.py | 2 +-  
pyme/gpgme.i | 5 +++++  
pyme/pyme/core.py | 2 +-  
pyme/pyme/util.py | 5 +++--  
pyme/pyme/version.py | 6 +++---  
5 files changed, 13 insertions(+), 7 deletions(-)

commit df5e25d7ee4dc0aa0d429f9d009322dd8ac33bb8  
Author: belyi <devnull@localhost>  
Date: Thu Mar 20 19:07:00 2008 +0000

Improve matching for DEPRECATED typedefs

pyme/gpgme-h-clean.py | 4 +++-  
1 file changed, 2 insertions(+), 2 deletions(-)

commit 78d8fc732848ac267ec65e9069265cd500587cdf  
Author: belyi <devnull@localhost>  
Date: Wed Mar 19 19:28:40 2008 +0000

Update API to use list when types containing 'next' field are return.  
Update examples accordingly  
Add verifydetails.py example  
Start adding bullets for 0.8.0 version.

pyme/Makefile | 2 +-  
pyme/debian/changelog | 14 +++++++-  
pyme/examples/PyGtkGpgKeys.py | 53 ++++++++-----  
pyme/examples/delkey.py | 7 +++-  
pyme/examples/encrypt-to-all.py | 7 +++-  
pyme/examples/exportimport.py | 7 +++-  
pyme/examples/pygpa.py | 70 ++++++++-----  
pyme/examples/signverify.py | 11 +++---  
pyme/examples/verifydetails.py | 79 ++++++++  
pyme/gpgme.i | 19 ++++++++-  
10 files changed, 180 insertions(+), 89 deletions(-)

commit 342d85b07475e7360bcd62804bf5facda039494f  
Author: belyi <devnull@localhost>  
Date: Mon Mar 10 01:14:16 2008 +0000

Change references to source files so that they point to the WebCVS browse location.

pyme-web/doc/pyme/index.html | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

pyme-web/doc/pyme/pyme.callbacks.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.data.encoding.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.data.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.event.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.import.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.keylist.html  
| 2 +-  
pyme-web/doc/pyme/pyme.constants.keylist.mode.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.md.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.pk.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.protocol.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.sig.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.sig.mode.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.sigsum.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.status.html | 2 +-  
pyme-web/doc/pyme/pyme.constants.validity.html | 2 +-  
pyme-web/doc/pyme/pyme.core.html | 2 +-  
pyme-web/doc/pyme/pyme.errors.html | 2 +-  
pyme-web/doc/pyme/pyme.html | 2 +-  
pyme-web/doc/pyme/pyme.util.html | 2 +-  
pyme-web/doc/pyme/pyme.version.html | 2 +-  
22 files changed, 22 insertions(+), 22 deletions(-)

commit 4139dd1d066c1a6c892d84fe45dc3e6c4aa1b803

Author: belyi

<devnull@localhost>

Date: Sat Mar 8 18:21:08 2008 +0000

Add core.check\_version(None) to all examples since this function is used by Gpgme to do internal initialization. Update debian/rules to use dh\_pysupport instead of deprecated dh\_python.

pyme/debian/rules | 8 +++-----  
pyme/examples/PyGtkGpgKeys.py | 7 ++++++-  
pyme/examples/delkey.py | 2 ++  
pyme/examples/encrypt-to-all.py | 3 +++  
pyme/examples/exportimport.py | 2 ++  
pyme/examples/genkey.py | 1 +  
pyme/examples/inter-edit.py | 3 +++  
pyme/examples/pygpa.py | 5 ++++++  
pyme/examples/sign.py | 2 ++  
pyme/examples/signverify.py | 2 ++  
pyme/examples/simple.py | 2 ++  
pyme/examples/t-edit.py | 3 +++  
12 files changed, 34 insertions(+), 6 deletions(-)

commit ae76c6176457dd38e0634cbc17d794294a3a81d2



Author: belyi <devnull@localhost>  
Date: Wed Apr 12 22:20:38 2006 +0000

Change name of internal package name from 'gpgme' to 'pygpgme' to avoid conflict with gpgme.dll on Windows.  
Fix build with SWIG 1.3.28.  
Change version to 0.7.1 in a preparation for new release.

```
pyme/Makefile      | 3 +-  
pyme/debian/changelog | 12 +++++  
pyme/gpgme.i      | 19 ++++---  
pyme/pyme/callbacks.py | 1 -  
pyme/pyme/core.py  | 153 ++++++-----  
pyme/pyme/errors.py | 12 ++--  
pyme/pyme/util.py  | 10 ++--  
pyme/pyme/version.py | 2 +-  
pyme/setup.py     | 4 +-  
9 files changed, 116 insertions(+), 100 deletions(-)
```

commit d644383a76e9f83bc2d426628319e3c4a989dc2d  
Author: belyi <devnull@localhost>  
Date: Sat Dec 17 01:34:53 2005 +0000

Put all constants into pyme.constants package to avoid stepping on python reserved words.  
Add build rules for Mingw32 and Cygwin on Windows. Rules for Mingw under Debian are still to come.  
Fixed a small bug in pygpa.py example.

```
pyme/Makefile      | 11 ++++++---  
pyme/examples/pygpa.py  
  | 3 ++-  
pyme/pyme/__init__.py | 2 +-  
pyme/pyme/constants/__init__.py | 3 +++  
pyme/setup.py       | 42 ++++++-----  
5 files changed, 51 insertions(+), 10 deletions(-)
```

commit 89eb370fcaa8adc9d219eadbaa579dde7bf06329  
Author: belyi <devnull@localhost>  
Date: Mon Aug 1 03:08:32 2005 +0000

Imported changes provided by Joost van Baal:  
Use dh\_python in debian/rules and change the Section pyme belongs to from 'libs' to 'python'.

```
pyme/debian/control | 6 ++++---  
pyme/debian/rules  | 2 ++  
2 files changed, 5 insertions(+), 3 deletions(-)
```

commit ad76d10c2a77b45b7459c62131279e946b860891

Author: belyi <devnull@localhost>

Date: Fri Jun 10 03:01:22 2005 +0000

Update 'docs' rule in Makefile to build packages first to ensure that documentation is build for the current version of pyme and not for the installed one.

Added 'callbacks' into the list of visible pyme modules (\_\_all\_\_ var.)

Slightly updated INSTALL file.

```
pyme/INSTALL      | 11 ++++++----
pyme/Makefile     | 4 +++-
pyme/pyme/__init__.py | 2 +-
3 files changed, 11 insertions(+), 6 deletions(-)
```

commit 2fe1a81e00721698bfa6850b3db2eb85e43d1724

Author: belyi <devnull@localhost>

Date: Wed Jun 8 16:16:18 2005 +0000

Update pyme documentation to remove dead links to pyme.gpgme.html and pyme.\_gpgme.html

Added reference to the installed GPGME and PyMe documentation to the head web page.

Updated Makefile to install all \*.html files and to clean \*~ files in all subdirectories

```
pyme-web/Makefile      | 10 ++++++----
pyme-web/doc/pyme/index.html | 8 +++-----
pyme-web/doc/pyme/pyme.callbacks.html | 8 -----
pyme-web/doc/pyme/pyme.core.html | 1 -
pyme-web/doc/pyme/pyme.errors.html | 8 -----
pyme-web/doc/pyme/pyme.html | 8 +++-----
pyme-web/doc/pyme/pyme.util.html | 8 -----
pyme-web/index.html | 9 ++++++----
8 files
changed, 19 insertions(+), 41 deletions(-)
```

commit 6aa34cce4ea0099e50b4936dfce59778157b8ca8

Author: belyi <devnull@localhost>

Date: Wed Jun 8 15:18:20 2005 +0000

Added pyme and gpgme documentation.

```
pyme-web/doc/gpgme/gpgme.html | 251 ++++++++
```

|                                  |             |
|----------------------------------|-------------|
| pyme-web/doc/gpgme/gpgme_1.html  | 76 +++      |
| pyme-web/doc/gpgme/gpgme_10.html | 61 ++       |
| pyme-web/doc/gpgme/gpgme_11.html | 130 ++++    |
| pyme-web/doc/gpgme/gpgme_12.html | 82 +++      |
| pyme-web/doc/gpgme/gpgme_13.html | 130 ++++    |
| pyme-web/doc/gpgme/gpgme_14.html | 108 ++++    |
| pyme-web/doc/gpgme/gpgme_15.html | 69 +++      |
| pyme-web/doc/gpgme/gpgme_16.html | 169 ++++++  |
| pyme-web/doc/gpgme/gpgme_17.html | 63 ++       |
| pyme-web/doc/gpgme/gpgme_18.html | 63 ++       |
| pyme-web/doc/gpgme/gpgme_19.html | 66 ++       |
| pyme-web/doc/gpgme/gpgme_2.html  | 79 +++      |
| pyme-web/doc/gpgme/gpgme_20.html | 120 ++++    |
| pyme-web/doc/gpgme/gpgme_21.html | 102 +++     |
| pyme-web/doc/gpgme/gpgme_22.html | 108 ++++    |
| pyme-web/doc/gpgme/gpgme_23.html | 237 +++++++ |
| pyme-web/doc/gpgme/gpgme_24.html | 154 ++++++  |
| pyme-web/doc/gpgme/gpgme_25.html | 248 +++++++ |
| pyme-web/doc/gpgme/gpgme_26.html | 107 ++++    |
| pyme-web/doc/gpgme/gpgme_27.html | 80 +++      |
| pyme-web/doc/gpgme/gpgme_28.html | 67 ++       |
| pyme-web/doc/gpgme/gpgme_29.html | 164 ++++++  |
| pyme-web/doc/gpgme/gpgme_3.html  | 86 +++      |
| pyme-web/doc/gpgme/gpgme_30.html | 106 ++++    |
| pyme-web/doc/gpgme/gpgme_31.html | 232 +++++++ |
| pyme-web/doc/gpgme/gpgme_32.html | 85 +++      |
| pyme-web/doc/gpgme/gpgme_33.html | 223 +++++++ |
| pyme-web/doc/gpgme/gpgme_34.html | 83 +++      |
| pyme-web/doc/gpgme/gpgme_35.html | 70 +++      |
| pyme-web/doc/gpgme/gpgme_36.html | 63 ++       |
| pyme-web/doc/gpgme/gpgme_37.html | 66 ++       |
| pyme-web/doc/gpgme/gpgme_38.html | 86 +++      |
| pyme-web/doc/gpgme/gpgme_39.html | 79 +++      |
| pyme-web/doc/gpgme/gpgme_4.html  | 83 +++      |
| pyme-web/doc/gpgme/gpgme_40.html | 89 +++      |
| pyme-web/doc/gpgme/gpgme_41.html | 99 +++      |
| pyme-web/doc/gpgme/gpgme_42.html | 144 ++++++  |
| pyme-web/doc/gpgme/gpgme_43.html | 152 ++++++  |
| pyme-web/doc/gpgme/gpgme_44.html | 112 ++++    |
| pyme-web/doc/gpgme/gpgme_45.html | 101 +++     |
| pyme-web/doc/gpgme/gpgme_46.html | 459 ++++++  |
| pyme-web/doc/gpgme/gpgme_47.html | 292 +++++++ |
| pyme-web/doc/gpgme/gpgme_48.html | 363 +++++++ |
| pyme-web/doc/gpgme/gpgme_49.html | 209 +++++++ |
| pyme-web/doc/gpgme/gpgme_5.html  | 74 +++      |

|                                   |             |
|-----------------------------------|-------------|
| pyme-web/doc/gpgme/gpgme_50.html  | 88 +++      |
| pyme-web/doc/gpgme/gpgme_51.html  | 208 +++++++ |
| pyme-web/doc/gpgme/gpgme_52.html  | 154 +++++   |
| pyme-web/doc/gpgme/gpgme_53.html  | 291 +++++++ |
| pyme-web/doc/gpgme/gpgme_54.html  | 91 +++      |
| pyme-web/doc/gpgme/gpgme_55.html  | 107 +++++   |
| pyme-web/doc/gpgme/gpgme_56.html  | 140 +++++   |
| pyme-web/doc/gpgme/gpgme_57.html  | 106 +++++   |
| pyme-web/doc/gpgme/gpgme_58.html  | 89 +++      |
| pyme-web/doc/gpgme/gpgme_59.html  | 97 +++      |
| pyme-web/doc/gpgme/gpgme_6.html   | 77 +++      |
| pyme-web/doc/gpgme/gpgme_60.html  | 142 +++++   |
| pyme-web/doc/gpgme/gpgme_61.html  | 626 ++++++  |
| pyme-web/doc/gpgme/gpgme_62.html  | 107 +++++   |
| pyme-web/doc/gpgme/gpgme_63.html  | 67 ++       |
| pyme-web/doc/gpgme/gpgme_64.html  | 95 +++      |
| pyme-web/doc/gpgme/gpgme_65.html  | 233 +++++   |
| pyme-web/doc/gpgme/gpgme_66.html  | 65 ++       |
| pyme-web/doc/gpgme/gpgme_67.html  | 220 +++++   |
| pyme-web/doc/gpgme/gpgme_68.html  | 75 +++      |
| pyme-web/doc/gpgme/gpgme_69.html  | 119 +++++   |
| pyme-web/doc/gpgme/gpgme_7.html   | 123 +++++   |
| pyme-web/doc/gpgme/gpgme_70.html  | 107 +++++   |
| pyme-web/doc/gpgme/gpgme_71.html  | 218 +++++   |
| pyme-web/doc/gpgme/gpgme_72.html  | 134 +++++   |
| pyme-web/doc/gpgme/gpgme_73.html  | 299 +++++   |
| pyme-web/doc/gpgme/gpgme_74.html  | 103 +++++   |
| pyme-web/doc/gpgme/gpgme_75.html  | 104 +++++   |
| pyme-web/doc/gpgme/gpgme_76.html  | 118 +++++   |
| pyme-web/doc/gpgme/gpgme_77.html  | 95 +++      |
| pyme-web/doc/gpgme/gpgme_78.html  | 71 +++      |
| pyme-web/doc/gpgme/gpgme_79.html  | 686 ++++++  |
| pyme-web/doc/gpgme/gpgme_8.html   | 155 +++++   |
| pyme-web/doc/gpgme/gpgme_80.html  | 120 +++++   |
| pyme-web/doc/gpgme/gpgme_81.html  | 278 +++++   |
| pyme-web/doc/gpgme/gpgme_82.html  | 272 +++++   |
| pyme-web/doc/gpgme/gpgme_83.html  | 180 +++++   |
| pyme-web/doc/gpgme/gpgme_84.html  | 99 +++      |
| pyme-web/doc/gpgme/gpgme_9.html   | 104 +++++   |
| pyme-web/doc/gpgme/gpgme_abt.html | 206 +++++   |
| pyme-web/doc/gpgme/gpgme_fot.html | 53 ++       |
| pyme-web/doc/gpgme/gpgme_ovr.html | 68 ++       |
| pyme-web/doc/gpgme/gpgme_toc.html | 247 +++++   |
| pyme-web/doc/gpgme/index.html     | 251 +++++   |
| pyme-web/doc/pyme/index.html      |             |

```
| 166 +++++
pyme-web/doc/pyme/pyme.callbacks.html      | 50 ++
.../doc/pyme/pyme.constants.data.encoding.html | 48 ++
pyme-web/doc/pyme/pyme.constants.data.html  | 29 +
pyme-web/doc/pyme/pyme.constants.event.html | 48 ++
pyme-web/doc/pyme/pyme.constants.html      | 39 ++
pyme-web/doc/pyme/pyme.constants.import.html | 49 ++
pyme-web/doc/pyme/pyme.constants.keylist.html | 29 +
pyme-web/doc/pyme/pyme.constants.keylist.mode.html | 48 ++
pyme-web/doc/pyme/pyme.constants.md.html   | 58 ++
pyme-web/doc/pyme/pyme.constants.pk.html   | 50 ++
pyme-web/doc/pyme/pyme.constants.protocol.html | 46 ++
pyme-web/doc/pyme/pyme.constants.sig.html  | 29 +
pyme-web/doc/pyme/pyme.constants.sig.mode.html | 47 ++
pyme-web/doc/pyme/pyme.constants.sigsum.html | 55 ++
pyme-web/doc/pyme/pyme.constants.status.html | 117 +++++
pyme-web/doc/pyme/pyme.constants.validity.html | 50 ++
pyme-web/doc/pyme/pyme.core.html
      | 254 ++++++++
pyme-web/doc/pyme/pyme.errors.html         | 90 +++
pyme-web/doc/pyme/pyme.html                | 166 ++++++
pyme-web/doc/pyme/pyme.util.html           | 78 ++++
pyme-web/doc/pyme/pyme.version.html        | 37 ++
pyme-web/index.html                       | 6 +-
113 files changed, 14966 insertions(+), 1 deletion(-)
```

commit 2d6fe54479f042644f7b0f3d2fe35877d2056144

Author: belyi <devnull@localhost>

Date: Thu May 19 02:06:09 2005 +0000

Added INSTALL file.

```
pyme/INSTALL | 10 ++++++++
```

1 file changed, 10 insertions(+)

commit d6892fff0c3cedf41dba4c25ab8608e7f2bc039c

Author: belyi <devnull@localhost>

Date: Tue May 17 16:49:28 2005 +0000

Update copyright note on simple.py

```
pyme/examples/simple.py | 4 ++--
```

1 file changed, 2 insertions(+), 2 deletions(-)

commit c2cd9cdf5995843aad7b200b929db2969effc9d2

Author: belyi <devnull@localhost>

Date: Tue May 17 15:03:58 2005

+0000

Update simple.py to catch errors.

pyme/examples/simple.py | 17 ++++++++-----  
1 file changed, 11 insertions(+), 6 deletions(-)

commit eaedae7c6a0ea993caab067efe781a59b6769c44  
Author: belyi <devnull@localhost>  
Date: Tue May 17 01:18:23 2005 +0000

Added 'PYTHON = python' into Makefile for bug #1199122

pyme/Makefile | 1 +  
pyme/examples/signverify.py | 1 +  
2 files changed, 2 insertions(+)

commit 56fd244bb2636a4d58629899ea3cde1d96428198  
Author: belyi <devnull@localhost>  
Date: Wed Apr 27 21:37:06 2005 +0000

Added pygpa example.

pyme/debian/changelog | 3 +-  
pyme/examples/pygpa.glade | 5546 ++++++++  
pyme/examples/pygpa.py | 1459 ++++++++  
3 files changed, 7007 insertions(+), 1 deletion(-)

commit 2d9a2a91a59ac3fee5410c953b7e0859e9e7cd35  
Author: belyi <devnull@localhost>  
Date: Thu Apr 21 15:17:51 2005 +0000

Change version to 0.7.0 due to the change in license.

pyme/debian/changelog  
| 2 +-  
pyme/pyme/version.py | 2 +-  
2 files changed, 2 insertions(+), 2 deletions(-)

commit 94e34e38d742f145385bd235825b6ba1e30d8339  
Author: belyi <devnull@localhost>  
Date: Thu Apr 21 03:53:12 2005 +0000

Changed license on PyMe from GPL to LGPL.  
PyMe examples keep GPL license.

pyme/COPYING.LESSER | 510 ++++++++  
pyme/Makefile | 20 +-  
2 files changed, 1 insertion(+), 19 deletions(-)

```

pyme/debian/changelog      | 4 +-
pyme/debian/copyright     | 22 +-
pyme/gpgme-h-clean.py    | 16 ++
pyme/gpgme.i              | 20 +-
pyme/helpers.c            | 20 +-
pyme/helpers.h            | 20 +-
pyme/pyme/__init__.py     | 20 +-
pyme/pyme/callbacks.py    | 20 +-
pyme/pyme/constants/data/encoding.py | 20 +-
pyme/pyme/constants/event.py | 20 +-
pyme/pyme/constants/import.py | 20 +-
pyme/pyme/constants/keylist/mode.py | 20 +-
pyme/pyme/constants/md.py
    | 20 +-
pyme/pyme/constants/pk.py | 20 +-
pyme/pyme/constants/protocol.py | 20 +-
pyme/pyme/constants/sig/mode.py | 20 +-
pyme/pyme/constants/sigsum.py | 20 +-
pyme/pyme/constants/status.py | 20 +-
pyme/pyme/constants/validity.py | 20 +-
pyme/pyme/core.py         | 20 +-
pyme/pyme/errors.py       | 20 +-
pyme/pyme/util.py         | 20 +-
pyme/pyme/version.py      | 22 +-
pyme/setup.py             | 20 +-
26 files changed, 761 insertions(+), 233 deletions(-)

```

commit 0d8aa0f6335cb1506a37085095ed45173b099a02

Author: belyi <devnull@localhost>

Date: Tue Apr 19 01:46:06 2005 +0000

Added `__hash__` and `__eq__` methods to `GpgmeWrapper` to allow both `Context()` and `Data()` to be used as a dictionary key.

Changed `core.wait()` function to always return a tuple. On timeout now it returns `(0, None)` instead of just `None`. Plus, return context is

now a

`Context()` object instead of a wrapper return by underlying `gpgme`.

```

pyme/helpers.c | 1 -
pyme/pyme/core.py | 25 ++++++-----
pyme/pyme/util.py | 9 ++++++
3 files changed, 24 insertions(+), 11 deletions(-)

```

commit 63ff6d10637be1dcbcd78c939ac1ef1ac30b1024

Author: belyi <devnull@localhost>

Date: Wed Apr 6 04:58:40 2005 +0000

Made hook parameter optional in `passphrase_cb` and `progress_cb`.

Allowed None for callbacks to unset ones set previously.  
Removed cleanup of exception in callbacks - now just retrieve the error code.  
Added prev\_bad parameter in passphrase\_cb since it can be used in  
change password protocols.  
Updated examples to follow new sets of arguments in callbacks  
Updated op\_edit to check if passed key is None (otherwise gpgme dumps core)  
God rid of annoying warning "function declaration isn't a prototype" in  
helpers.c and helpers.h by changing from () to (void) list of arguments.

```
pyme/debian/changelog | 10 +++++---
pyme/examples/signverify.py | 2 +-
pyme/examples/t-edit.py | 2 +-
pyme/gpgme.i | 18 ++++++-----
pyme/helpers.c | 60 ++++++-----
pyme/helpers.h | 4 +--
pyme/pyme/callbacks.py | 6 +++--
pyme/pyme/core.py | 47 ++++++-----
pyme/pyme/errors.py | 2 +-
9 files changed, 96 insertions(+), 55 deletions(-)
```

commit 8f0ab8138c7aa190936376ccbbf33bb09c64d6f1

Author: belyi <devnull@localhost>

Date: Thu Mar 31 23:50:59 2005 +0000

Added exception handling in passphrase\_cb and edit\_cb. If GPGMEEError  
exception is thrown in those callbacks it will be converted into its  
core representation and return as an error code to the caller.  
On all other exceptions error code will be GPG\_ERR\_GENERAL.

```
pyme/Makefile | 1 +
pyme/debian/changelog | 8 ++++++++
pyme/gpgme.i | 20 ++++++-----
pyme/helpers.c | 51
+++++-----
pyme/helpers.h | 3 +++
5 files changed, 71 insertions(+), 12 deletions(-)
```

commit 9903d1fb11231e7e3d920e58d1ecb674c5988b07

Author: belyi <devnull@localhost>

Date: Thu Mar 31 05:12:15 2005 +0000

Remove workaround from Context.wait() method since the bug report and  
patch fixing gpgme\_wait's behavior is sent to GPMGE developers already.  
Added errorcheck into op\_edit() so that it can report an error.

```
pyme/pyme/core.py | 10 +++++-----
1 file changed, 5 insertions(+), 5 deletions(-)
```



commit 45e8a5f4e13d3ca797ec3b0037242874a6be5562

Author: belyi <devnull@localhost>

Date: Sat Mar 26 19:44:18 2005 +0000

Updated version number to 0.6.2 in version.py  
Added examples/\*.glade files into documentation package.

pyme/debian/examples | 1 +  
pyme/pyme/version.py | 2 +-  
2 files changed, 2 insertions(+), 1 deletion(-)

commit 270b87bb40e180cb6e8f1de9a0e8161525ffa4ab

Author: belyi <devnull@localhost>

Date: Sat Mar

26 19:31:14 2005 +0000

Updated debian/changelog regarding PyGtkGpgKeys example and a fix in errors.

pyme/debian/changelog | 5 ++++-  
1 file changed, 4 insertions(+), 1 deletion(-)

commit ea4682009a506db91e5174ffd038fe7e4406b591

Author: belyi <devnull@localhost>

Date: Sat Mar 26 19:25:36 2005 +0000

Added handling of right mouse button click.  
Changed reporting a string instead of a number on key generation failure.

pyme/examples/PyGtkGpgKeys.glade | 2 ++  
pyme/examples/PyGtkGpgKeys.py | 30 ++++++-----  
2 files changed, 29 insertions(+), 3 deletions(-)

commit f65ad1a703d0098a3204fb8527a54d253e5847e7

Author: belyi <devnull@localhost>

Date: Sat Mar 26 18:11:11 2005 +0000

Added another column indicating if a key has a secret part.  
Automated generation of the View menu from the view field of the KeyColumn class.

pyme/examples/PyGtkGpgKeys.glade | 93 +-----  
pyme/examples/PyGtkGpgKeys.py | 74  
+++++-----  
2 files changed, 44 insertions(+), 123 deletions(-)

commit b54e83a7a7a5785502f3c7e8b95f15e23b40e65a

Author: belyi <devnull@localhost>

Date: Sat Mar 26 16:45:13 2005 +0000

Small change to the way gtk.TreeModel object is used.

pyme/examples/PyGtkGpgKeys.py | 21 ++++++-----  
1 file changed, 10 insertions(+), 11 deletions(-)

commit 7078db75cef4c1fd70cf03e37172bdb4f933fd1b

Author: belyi <devnull@localhost>

Date: Fri Mar 25 23:33:06 2005 +0000

Use more comprehensible error reporting since gpgme\_strerror\_r returns None all the time.

pyme/pyme/errors.py | 6 +++--  
1 file changed, 3 insertions(+), 3 deletions(-)

commit 151213f4344d9984975721440af07de09e3df61c

Author: belyi <devnull@localhost>

Date: Fri Mar 25 04:30:17 2005 +0000

Improved PyGtkGpgKeys example to manage owner\_trust on keys.  
Added another example inter-edit.py which is just a helper to write scripts for Context.op\_edit() command.

pyme/examples/PyGtkGpgKeys.glade  
| 78 ++++++  
pyme/examples/PyGtkGpgKeys.py | 68 ++++++-----  
pyme/examples/inter-edit.py | 54 ++++++  
pyme/examples/t-edit.py | 18 ++++++  
4 files changed, 212 insertions(+), 6 deletions(-)

commit fc7235af217bcee5231ce7fbd7f234712d5ad3b0

Author: belyi <devnull@localhost>

Date: Fri Mar 25 00:30:39 2005 +0000

Updated PyGtkGpgKeys example to include import, export and reload functionality. Also added ability to remove number of keys simultaneously. Rearranged how KeyColumn is used to avoid unnecessary sorts and duplication of information in different parts of the code.

pyme/examples/PyGtkGpgKeys.glade | 86 ++++++--  
pyme/examples/PyGtkGpgKeys.py | 332 ++++++-----  
2 files changed, 325 insertions(+), 93 deletions(-)

commit 9f65749ccb1b7cab562e19c03f4371d5f7d94912

Author: belyi <devnull@localhost>

Date: Thu Mar 24 05:51:03

2005 +0000

Added example of PyGTK+ and PyMe integration.  
For now it does only simple things - listing, deleting, and generating keys.

```
pyme/examples/PyGtkGpgKeys.glade | 1321 ++++++
pyme/examples/PyGtkGpgKeys.gladep | 8 +
pyme/examples/PyGtkGpgKeys.py | 424 ++++++
3 files changed, 1753 insertions(+)
```

commit 59e23f32c3b46413c9ec09e23e1a385a110fb103  
Author: belyi <devnull@localhost>  
Date: Thu Mar 24 05:44:58 2005 +0000

Added wait method Context class which handles asynchronous calls a little  
bit better than the one generated by SWIG.

```
pyme/debian/changelog | 7 ++++++
pyme/gpgme.i | 1 +
pyme/pyme/core.py | 40 ++++++
3 files changed, 48 insertions(+)
```

commit 4c1b5259e4985df2cba0ae4fc09f12cd94603a75  
Author: belyi <devnull@localhost>  
Date: Tue Mar 22 18:29:31 2005 +0000

Added correct handling of Context.op\_edit() method.  
Added example/t-edit.py showing  
usage for this method.  
Output of this example should match output of the tests/gpg/t-edit  
from the GPGME test suite.  
Remove unused static function from helpers.c

```
pyme/examples/t-edit.py | 38 ++++++
pyme/gpgme.i | 36 ++++++
pyme/helpers.c | 36 -----
pyme/pyme/core.py | 5 ++++
4 files changed, 78 insertions(+), 37 deletions(-)
```

commit dc587e215283bfef2dd594f86a7b2945f74f5155  
Author: belyi <devnull@localhost>  
Date: Sat Mar 19 01:43:59 2005 +0000

Update changelog to include note about deprecated function in 0.6.1 release

```
pyme/debian/changelog | 3 +-
pyme/examples/encrypt-to-all.py | 3 +-
2 files changed, 3 insertions(+), 3 deletions(-)
```

commit 86de4b3ad777f980ccf7ba3462c85bbe1787d1fd  
Author: belyi <devnull@localhost>  
Date: Sat Mar 19 01:40:07 2005 +0000

Remove deprecated functions from helpers.[ch]  
Use gpgme-h-clean.py  
to remove deprecated functions and typedefs from  
the GPGME header file. This will reduce the number of unused methods.

pyme/Makefile | 4 +++  
pyme/gpgme-h-clean.py | 26 +++++  
pyme/helpers.c | 8 -----  
pyme/helpers.h | 2 --  
4 files changed, 28 insertions(+), 12 deletions(-)

commit 2483efcbd0d73c628c4d7717928a766c3b58f0aa  
Author: belyi <devnull@localhost>  
Date: Fri Mar 18 22:15:52 2005 +0000

Update copyright and author values in pyme/version.py  
Create rules to build distribution files - one full and one without  
debian bits.

pyme/Makefile | 28 +++++  
pyme/pyme/version.py | 12 +++++  
2 files changed, 28 insertions(+), 12 deletions(-)

commit 168593285380f5a7805f3dd08657d429a72d3621  
Author: belyi <devnull@localhost>  
Date: Fri Mar 18 19:09:33 2005 +0000

Added package building for python2.4

Updated copyright notes to include myself and avoid confusion who's the  
maintainer.

In John's own words: "I'd prefer to just step out of the picture".

Jonh's copyright notice left intact.

pyme/Makefile | 6 +++  
pyme/debian/changelog | 7 +++++  
pyme/debian/control | 30 +++++  
pyme/debian/copyright | 10 +++++  
pyme/debian/rules | 4 +++  
pyme/debian/setup.cfg-2.4 | 8 +++++  
pyme/examples/genkey.py | 4 +++  
pyme/gpgme.i | 4 +++  
pyme/helpers.c | 4 +++

```

pyme/helpers.h          | 4 +++-
pyme/pyme/__init__.py   | 4 +++-
pyme/pyme/callbacks.py  | 4 +++-
pyme/pyme/constants/data/encoding.py | 4 +++-
pyme/pyme/constants/event.py | 4 +++-
pyme/pyme/constants/import.py | 4 +++-
pyme/pyme/constants/keylist/mode.py | 4 +++-
pyme/pyme/constants/md.py | 4 +++-
pyme/pyme/constants/pk.py
    | 4 +++-
pyme/pyme/constants/protocol.py | 4 +++-
pyme/pyme/constants/sig/mode.py | 4 +++-
pyme/pyme/constants/sigsum.py | 4 +++-
pyme/pyme/constants/status.py | 4 +++-
pyme/pyme/constants/validity.py | 4 +++-
pyme/pyme/core.py       | 4 +++-
pyme/pyme/errors.py     | 4 +++-
pyme/pyme/util.py       | 4 +++-
pyme/pyme/version.py    | 2 +-
pyme/setup.py          | 3 +-
28 files changed, 96 insertions(+), 54 deletions(-)

```

commit 6dbbb252771133724b2879ed6d767cd708196dae

Author: belyi <devnull@localhost>

Date: Fri Mar 18 18:04:35 2005 +0000

Remove the note about gpgme.i to be generated - it's been the primary source for some time.

```

pyme/gpgme.i | 6 -----
1 file changed, 6 deletions(-)

```

commit 9d449fa4889c6bda6d14583c0625b8d5c4ffe759

Author: belyi <devnull@localhost>

Date: Fri May 7 18:31:22 2004 +0000

Added my copyright in genkey.py since there's enough changes made.

Updated signverify to use only keys generated by genkey.py, to check that keys added to singers are able to sign and to check that the list of signers is not empty. The last check is necessary to prevent signing with the key of the user running signverify.py script.  
 Added delkey.py script to delete keys generated by genkey.py  
 Added exportimport.py example for key export/import.

```

pyme/examples/delkey.py | 29 ++++++
pyme/examples/exportimport.py | 76 ++++++
pyme/examples/genkey.py | 6 +++-

```

pyme/examples/signverify.py | 18 ++++++----  
4 files changed, 119 insertions(+), 10 deletions(-)

commit df98c8d28245ad2c14b0ab50fc8f8932853bec8b

Author: belyi <devnull@localhost>

Date: Tue May 4 17:34:15 2004 +0000

Added examples/signverify.py for unattended sing/verify.  
Updated examples/genkey.py to work correctly.  
Updated gpgme.i to allow None as a value for gpgme\_data\_t

pyme/examples/genkey.py | 14 ++-----  
pyme/examples/signverify.py | 72 +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++  
pyme/gpgme.i | 21 ++++++-----  
3 files changed, 87 insertions(+), 20 deletions(-)

commit ba45931abf530ab89ead46d7233ff1b62b629a18

Author: belyi <devnull@localhost>

Date: Thu Apr 8 16:15:09 2004 +0000

Ensure that we support only python2.2 and up. :-)  
Use generators in core.Context class which makes pyme.aux obsolete  
Remove importing future nested\_scopes since they are standard starting  
with python2.2

pyme/pyme/\_\_init\_\_.py | 5 +----  
pyme/pyme/aux.py | 56 -----  
pyme/pyme/core.py | 15 ++++++-----  
pyme/pyme/errors.py | 1 -  
pyme/pyme/util.py | 2 +-  
5 files changed, 15 insertions(+), 64 deletions(-)

commit 4e9be5a55ecffa4da7ad5c192cc892eddaaa9586

Author: belyi <devnull@localhost>

Date: Sun Mar 21 03:53:30 2004 +0000

Small change to index.html  
Added clean: rule to the Makefile

pyme-web/Makefile | 3 +++  
pyme-web/index.html | 6 +---  
2 files changed, 6 insertions(+), 3 deletions(-)

commit 2efb95176f4edf56ed61c9ac0c3aa09c56534df0

Author: belyi <devnull@localhost>

Date: Sun Mar 21 03:00:32 2004 +0000

Added Makefile rules for pyme module installation.

pyme/Makefile | 5 ++++  
1 file changed, 4 insertions(+), 1 deletion(-)

commit 2b83d5d8b513029cc3e54f2fa502ccc85618104b

Author: belyi <devnull@localhost>

Date: Sun Mar 21 02:29:54 2004 +0000

Decorative change.

pyme/pyme/aux.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit e3478015d763a036c1d806ae01433fce59712204

Author: belyi <devnull@localhost>

Date: Sun Mar 21 02:25:55 2004 +0000

Added RCS Id: tags

pyme/Makefile | 1 +  
pyme/examples/encrypt-to-all.py | 3 +-  
pyme/examples/genkey.py | 3 +-  
pyme/examples/sign.py | 3 +-  
pyme/examples/simple.py  
| 3 +-  
pyme/gpgme.i | 1 +  
pyme/helpers.c | 1 +  
pyme/helpers.h | 1 +  
pyme/pyme/\_\_init\_\_.py | 1 +  
pyme/pyme/aux.py | 1 +  
pyme/pyme/callbacks.py | 1 +  
pyme/pyme/constants/\_\_init\_\_.py | 2 ++  
pyme/pyme/constants/data/\_\_init\_\_.py | 2 ++  
pyme/pyme/constants/data/encoding.py | 1 +  
pyme/pyme/constants/event.py | 1 +  
pyme/pyme/constants/import.py | 1 +  
pyme/pyme/constants/keylist/\_\_init\_\_.py | 2 ++  
pyme/pyme/constants/keylist/mode.py | 1 +  
pyme/pyme/constants/md.py | 1 +  
pyme/pyme/constants/pk.py | 1 +  
pyme/pyme/constants/protocol.py | 1 +  
pyme/pyme/constants/sig/\_\_init\_\_.py | 2 ++  
pyme/pyme/constants/sig/mode.py | 1 +  
pyme/pyme/constants/sigsum.py | 1 +  
pyme/pyme/constants/status.py | 1 +  
pyme/pyme/constants/validity.py | 1  
+  
pyme/pyme/core.py | 1 +

pyme/pyme/errors.py | 1 +  
pyme/pyme/util.py | 1 +  
pyme/pyme/version.py | 2 ++  
30 files changed, 39 insertions(+), 4 deletions(-)

commit b3b3712645332c5bc3e8d9d557aab21d48ff0f86  
Author: belyi <devnull@localhost>  
Date: Sun Mar 21 02:07:36 2004 +0000

Added Id: RCS tags to all files.

pyme-web/Makefile | 2 ++  
pyme-web/index.html | 3 +-  
2 files changed, 4 insertions(+), 1 deletion(-)

commit 6aea2426beaaa8c43e6f2310a37a2737c0c3a1b5  
Author: belyi <devnull@localhost>  
Date: Sun Mar 21 01:50:55 2004 +0000

Update example on the init pyme.html page to match simple.py example.  
Fix core.py to use getcode() instead of getvalue() method of the exception.

pyme/pyme/\_\_init\_\_.py | 22 ++++++-----  
pyme/pyme/core.py | 4 +--  
2 files changed, 16 insertions(+), 10 deletions(-)

commit dee337455ffd624d3f83e1c159c4bb2cefc692c9  
Author: belyi <devnull@localhost>  
Date:  
Sat Mar 20 20:32:29 2004 +0000

Added Makefile to simplify publishing web files.

pyme-web/Makefile | 7 ++++++  
1 file changed, 7 insertions(+)

commit af7129baa8260697d85c2ddb434562e8a80b62d8  
Author: belyi <devnull@localhost>  
Date: Sat Mar 20 20:15:53 2004 +0000

Added minimum of formatting and SF icon.

pyme-web/index.html | 18 ++++++-----  
1 file changed, 11 insertions(+), 7 deletions(-)

commit 2e64dcfb99cee796b51667b04d8961e390edde87  
Author: belyi <devnull@localhost>  
Date: Sat Mar 20 18:30:09 2004 +0000



Initial revision

pyme-web/index.html | 33 ++++++  
1 file changed, 33 insertions(+)

commit 1c51644b3d0b6611422d971758e35f303d2ad5df

Author: belyi <devnull@localhost>

Date: Sat Mar 20 05:10:46 2004 +0000

Update examples and package information on the initial pyme doc page.

pyme/pyme/\_\_init\_\_.py | 27 ++++++-----  
1 file changed, 12 insertions(+), 15 deletions(-)

commit b2d31b0bfbffdf5247d6db4e3c95140cc1b1f19

Author:

belyi <devnull@localhost>

Date: Sat Mar 20 04:47:42 2004 +0000

Deleted unnecessary files.

Updated debian/control to remove dependency on python-xml package since there's none now.

Move example files from 'doc' into separate control file.

Update debian/rules to build documentation from \*.py files and to exclude CVS directories from the installation.

pyme/Makefile | 26 ++-----  
pyme/debian/control | 8 +--  
pyme/debian/docs | 1 -  
pyme/debian/ex.package.doc-base | 22 -----  
pyme/debian/examples | 1 +  
pyme/debian/manpage.1.ex | 60 -----  
pyme/debian/manpage.sgml.ex | 152 -----  
pyme/debian/rules | 12 +++-  
8 files changed, 15 insertions(+), 267 deletions(-)

commit 1b517dd9b82a433499b4696b06d94d756cd36e53

Author: belyi <devnull@localhost>

Date: Sat Mar 20 02:59:15 2004 +0000

Remove doc/gpgme

directory containing GPGME documentation since this belongs to a different project. Need to add reference in our documentation.

pyme/doc/gpgme/fdl.texi | 402 -----  
pyme/doc/gpgme/gpgme.texi | 3372 -----  
pyme/doc/gpgme/gpl.texi | 397 -----

pyme/doc/gpgme/version.texi | 4 -  
4 files changed, 4175 deletions(-)

commit 95d7d171da115a0fedfe2a4a7e5acc8aa408f673

Author: belyi <devnull@localhost>

Date: Sat Mar 20 02:45:03 2004 +0000

Change debian/rules to generate files by swig during build and to cleanup those files on 'clean' rule.

Plus, leave generated gpgme\_wrap.c in the root directory instead of moving it into subdirectory 'generated'.

pyme/Makefile | 8 +++-----  
pyme/debian/rules | 3 +-  
pyme/setup.py | 2 +-  
3 files changed, 6 insertions(+), 7 deletions(-)

commit 545b3d90d445c5c78e8d72b2c1780863e02c789a

Author: belyi <devnull@localhost>

Date: Sat Mar 20 02:18:01 2004 +0000

Initial revision

pyme/COPYING | 340 +++++  
pyme/ChangeLog | 802 ++++++++  
pyme/Makefile | 79 +  
pyme/debian/README.Debian | 6 +  
pyme/debian/changelog | 19 +  
pyme/debian/control | 68 +  
pyme/debian/copyright | 27 +  
pyme/debian/dirs | 2 +  
pyme/debian/docs | 2 +  
pyme/debian/ex.package.doc-base | 22 +  
pyme/debian/manpage.1.ex | 60 +  
pyme/debian/manpage.sgml.ex | 152 ++  
pyme/debian/postinst.ex | 48 +  
pyme/debian/postrm.ex | 38 +  
pyme/debian/preinst.ex | 44 +  
pyme/debian/prerm.ex | 39 +  
pyme/debian/rules | 130 ++  
pyme/debian/setup.cfg-2.2 | 8 +  
pyme/debian/setup.cfg-2.3 | 8 +  
pyme/doc/gpgme/fdl.texi  
| 402 +++++  
pyme/doc/gpgme/gpgme.texi | 3372 +++++  
pyme/doc/gpgme/gpl.texi | 397 +++++  
pyme/doc/gpgme/version.texi | 4 +  
pyme/examples/encrypt-to-all.py | 63 +

```

pyme/examples/genkey.py      | 55 +
pyme/examples/sign.py       | 28 +
pyme/examples/simple.py     | 44 +
pyme/gpgme.i                | 191 ++
pyme/helpers.c              | 139 ++
pyme/helpers.h              | 29 +
pyme/pyme/__init__.py       | 134 ++
pyme/pyme/aux.py            | 55 +
pyme/pyme/callbacks.py      | 45 +
pyme/pyme/constants/__init__.py | 2 +
pyme/pyme/constants/data/__init__.py | 2 +
pyme/pyme/constants/data/encoding.py | 19 +
pyme/pyme/constants/event.py | 19 +
pyme/pyme/constants/import.py | 19 +
pyme/pyme/constants/keylist/__init__.py
| 2 +
pyme/pyme/constants/keylist/mode.py | 19 +
pyme/pyme/constants/md.py   | 19 +
pyme/pyme/constants/pk.py   | 19 +
pyme/pyme/constants/protocol.py | 19 +
pyme/pyme/constants/sig/__init__.py | 2 +
pyme/pyme/constants/sig/mode.py | 19 +
pyme/pyme/constants/sigsum.py | 19 +
pyme/pyme/constants/status.py | 19 +
pyme/pyme/constants/validity.py | 19 +
pyme/pyme/core.py           | 367 +++++
pyme/pyme/errors.py         | 46 +
pyme/pyme/util.py           | 61 +
pyme/pyme/version.py        | 39 +
pyme/setup.py               | 60 +
53 files changed, 7642 insertions(+)

```

commit a3d5a442dc713b6c4d6fc4134db5b47e379dc41d

Author: root <devnull@localhost>

Date: Fri Mar 19 14:12:30 2004 +0000

initial checkin

```

CVSROOT/checkoutlist | 13 ++++++
CVSROOT/commitinfo  | 15 ++++++
CVSROOT/config
| 21 ++++++
CVSROOT/cvswrappers | 19 ++++++
CVSROOT/editinfo    | 21 ++++++
CVSROOT/loginfo     | 26 ++++++
CVSROOT/modules     | 26 ++++++
CVSROOT/notify      | 12 ++++++
CVSROOT/rcsinfo     | 13 ++++++

```

CVSROOT/taginfo | 20 ++++++  
CVSROOT/verifymsg | 21 ++++++  
11 files changed, 207 insertions(+)  
-----BEGIN PGP PUBLIC KEY BLOCK-----

```
mQENBFrsKEkBCADKw4Wt8J6M/88qD8PO6lSMCxH1cpwH8iK0uPaFFYsJkkXo7kWf
PTAtrV+REqF/o80dvYcdLvRsV21pvncZz/HXLU1yQ18mC3XObrKokbdgrTTKA5XE
BZkNsqyaMMJauT18H4hYkSg62/tTdO1cu/zWv/LFf7Xyn6+uA74ovXCJIO1s0N2c
PSht98QRzPMf2owgVk37JnDNp4gGVDGHxSZOuUwXgYAZYnA8SFc+c+3ZrQfY870
+O4j3Mz4p7yD13AwP4buQLBsb/icekeQCqRjLH9f7MdEcGXa1x36RcEkHdu+M
yJ392eMgD+dKNfRCtyTPhjZTxvbNELIBYICfABEBAAG0EHRlc3RAZXhhbXBsZS5v
cmeJAVQEEwEIAD4WIQTUFzW5Ejb9uIIEjFojAWNe7/DLBQUCWuwoSQIbAwUJA8Jn
AAULCQgHAgYVCgkICwIEFgIDAQIeAQIXgAAKCRAjAWNe7/DLBf9kB/wOQ/S60HGw
Fq07W9N01HWULyhHKOmmHL6rfZ64oDqLxolPSasz7WAMW1jN4qtWJ0mFzwo83V6
kaBe+wF6Kqir6udFSBW9rPcFg6/VZXPltT0a6uacIHq6DyQ5iMW4YQWbVy9OR2rN
GkYo1JCBR0XdRjYCSX3yB4TWv/eXnZ37/WjmiTOIZh35rjs+NuU/S5JPDfAp2/k7
0DevQeBsv+UjVXjWpNTZmPbvDnd995uSmC6UY4hzyP84ORYMYn9n1QAR0goxDN6U
unOf9Rlp1oMzdxMool/d1MICxg2h3jheuhv7lgUF4KpvHOuEPXQ7UO417E0TYcDZ
1J8Nsv87SZeEuQENBFrsKEkBCADjoEBhG/QPqZHg8VyoD1xYRAWGxyDJkX/GrSs6
yE+x2hk5FoQCajxKa/d4AVxOnJpdwhAfeXeSNaql5Ejgzax+Tdj9BV6vtGVJVv0p
O7bgAiZxkA6RHxtNqhpPnPQoXvUzkzpRgpuL+Nj4yIg7z1ITH6KQH4u5SI9vd+j/
8i9Taz67pdZwuJjac8qBuJHjzAo1bjYctFYUSG5pbmMQyNLySzziNkFa4DajODlt
3RuqVGP316Fk+Sy2+60tC/HIX8jgMyMONfOGBQx6jk8tvAphS/LAqrrNepnagIyL
UGKU+L8cB2g1PGGp2biBFWqZbudZoyRBet/0yH/zirBdQJw1ABEBAAGJATwEGAEI
ACYWIQTUFzW5Ejb9uIIEjFojAWNe7/DLBQUCWuwoSQIbDAUJA8JnAAAKCRAjAWNe
7/DLBf0pCACPP5hBUUWngu2Hqvg+tNiujsiYzId3MffFxEk3CbXeHcJ5F32NDJ9
PYCnra4L8wSv+Nzt9gIa81FwoFSFQCjzH7KE86XcV3MhfdJTNb/+9CR7Jq3e/4Iy
0N5ip7PNYMCyakcAsxvsNCJKrSaDuYe/OAoTXRBtgRWE2uyT315em02Lkr+2Cc/Q
k6H+vlNOHGRgnpl/OZZjnUuUfBUvMGHr1phW+y7aeymC9PnUGdViRdJe23nntMSD
A+0/I7ESO9JsWvJbyBmuiZpu9JjScOjYH9xpQLqRNyw4WHpZriN69F0t9Mmd7bM1
+UyPgbPEr0iWMeyctYsuOLeUyQKMscDT
=QyY6
```

-----END

PGP PUBLIC KEY BLOCK-----

Using gpgme.js

-----

At first, make sure that the environment you want to use gpgme.js in has access and permissions for nativeMessaging, and gpgme-json installed. For details, see the README.

The library itself is started via the { @link init } method. This will test the nativeMessaging connection, and then resolve into an Object offering the top level API:

- \* [encrypt]{ @link GpgME#encrypt }
- \* [decrypt]{ @link GpgME#decrypt }
- \* [sign]{ @link GpgME#sign }
- \* [verify]{ @link GpgME#verify }

```
* [Keyring]{ @link GPGME_Keyring}
```

```
...
```

```
gpgmejs.init()  
  .then(function(GPGME) {  
    // using GPGME  
  }, function(error){  
    // error handling;  
  })  
...)
```

All methods that require communication with nativeMessaging are asynchronous, using Promises. Rejections will be instances of { @link GPGME\_Error}.

An exaemption are Keys, which can be initialized in a 'sync' mode, allowing them to be cached and used synchronously until manually refreshed.

### Keyring and Keys

```
-----
```

The gnupg keys  
can be accessed via the [Keyring]{ @link GPGME\_Keyring}.

The Keyring offers the methods for accessing information on all Keys known to gnupg.

**\*\*Due to security constraints, the javascript-binding currently only offers limited support for secret-Key interaction.\*\***

The existence of secret Keys is not secret, and those secret Keys can be used for signing, but Operations that may expose, modify or delete secret Keys are not supported.

```
* [getKeysArmored]{ @link GPGME_Keyring#getKeysArmored}  
* [getKeys]{ @link GPGME_Keyring#getKeys}  
* [getDefaultKey]{ @link GPGME_Keyring#getDefaultKey}  
* [generateKey]{ @link GPGME_Keyring#generateKey}  
* [deleteKey]{ @link GPGME_Keyring#deleteKey}
```

```
\input texinfo @c -*- texinfo -*-
```

```
@c %**start of header
```

```
@setfilename what-is-new.info
```

```
@settitle What's New in the GPGME Python Bindings and Documentation
```

```
@documentencoding utf-8
```

```
@documentlanguage en
```

```
@c %**end of header
```

```
@finalout
```

```
@titlepage
```

```
@title What's New in the GPGME Python Bindings and Documentation
```

@author Ben McGinnes

@end titlepage

@contents

@ifnottex

@node Top

@top What's New in the GPGME Python Bindings and Documentation

@end ifnottex

@menu

\* What's New::

@detailmenu

--- The Detailed Node Listing ---

What's New

\* New in GPGME 1130::

@end detailmenu

@end menu

@node What's New

@chapter What's New

@multitable {aaaaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}

@item Version:

@tab 0.0.1

@item GPGME Version:

@tab 1.13.0

@item Author:

@tab Ben McGinnes <ben@gnupg.org>

@item Author GPG Key:

@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D

@item Language:

@tab Australian English, British English

@item xml:lang:

@tab en-AU, en-GB, en

@end multitable

Last time the most

obviously new thing was adding the @emph{What's New} section to the HOWTO. Now it's moving it out of the HOWTO.

@menu

\* New in GPGME 1130::

@end menu

@node New in GPGME 1130  
@section New in GPGME 1130

Additions since GPGME 1.12.0 include:

@itemize

@item

Moving the @emph{What's New} section out of the basic @uref{gpgme-python-howto.org, HOWTO} document and

into its own file so as to more readily include other documents

beyond that HOWTO.

@item

Moving the preceding, archival, segments into @uref{what-was-new.org, another file}.

@item

Added @samp{gpg.version.versionintlist} to make it easier for Python developers to check for a specific version number, even with beta versions (it will drop the "-betaN" part).

@item

Added expanded detail on issues pertaining to installing for Windows users.

@item

Bindings enter @uref{maintenance-mode, maintenance mode} from January, 2019.

@item

Added documentation on maintenance mode and what changes can be made to the code when in that status. Essentially

that boils down to bug

fixes only and no feature requests.

@item

The import-keys-hkp.py example script, which uses the @samp{hkp4py} module to search the SKS servers for a key, has been tightened up to search for both hexadecimal key IDs and user ID strings with reduced chance of unnecessary repetition. There may still be some repetition if a key includes a user ID matching the hexadecimal value of a key ID.

@end itemize

@bye

```
;;; gpgme-grovel.lisp
```

```
;;; This file is part of GPGME-CL.
```

```
;;;
```

```
;;; GPGME-CL is free software; you can redistribute it and/or modify it
```

```
;;; under the terms of the GNU General Public License as published by
```

```
;;; the Free Software Foundation; either version 2 of the License, or
```

```
;;; (at your option) any later version.
```

```
;;;
```

```
;;; GPGME-CL is distributed in the hope that it will be useful, but
```

```
;;; WITHOUT ANY WARRANTY; without even the implied warranty of
;;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
;;; Lesser General Public License for more details.
;;;
;;; You should have received a copy of the GNU General Public License
;;; along with GPGME; if not, write to the Free Software Foundation,
;;; Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.
```

```
(in-package :gpgme)
```

```
(include "errno.h" "sys/types.h")
```

```
(constant (+ebadf+ "EBADF"))
```

```
(ctype off-t "off_t")
```

```
(ctype size-t "size_t")
```

```
(ctype ssize-t "ssize_t")
```

```
(cvar ("errno" *errno*) :int)
```

```
(21:protected-private-key(3:elg(1:p129:W#} }l;;m>
```

```
;4YV$Qg
```

```
LoLy~*Tru*+ID8"-9,:17^g*({ #7)(1:g1:)(1:y128:2o62,Tj/
```

```
rRi3sSS iCAYNYbVtAHKi7(UPp)?Od{ 'R^f)(9:protected25:openpgp-s2k3-sha1-aes-
```

```
cbc((4:sha18:fw'E7:5242880)16:aqR)192:5f1a-`{^EV699WoB\,:Rs1*W6Lu iZ
```

```
:=ZqURM47;pA3#DL
```

```
so8O)Th^P@IP0&.DR;"rkN7)(12:protected-at15:20101008T070216)))
```

For a list of the authors of the source code of GPGME, please see the file AUTHORS. The following people supported GPGME development in various ways (for example by finding bugs or giving advice), and we want to thank them for their help. If we forgot you, please let us know.

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This file is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, to the extent permitted by law; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  
# This is a template. The dist target uses it to create the real file.

Summary: GPGME - GnuPG Made Easy

Name: gpgme

Version: 1.13.1

Release: 1

URL: <https://gnupg.org/gpgme.html>

Source: <https://www.gnupg.org/ftp/gcrypt/gpgme/{name}-{version}.tar.gz>

Group: Development/Libraries

Copyright: GPL

BuildRoot: % {\_tmppath}/% {name}-% {version}

BuildRequires: make

Prereq: /sbin/ldconfig /sbin/install-info

Requires: gnupg

%description

GnuPG Made Easy (GPGME) is a library designed to make access to GnuPG easier for applications. It provides a High-Level Crypto API for encryption, decryption, signing, signature verification and key management.

%prep

%setup -q

%build

CFLAGS="\$RPM\_OPT\_FLAGS"; export CFLAGS

./configure --prefix=/usr

make

%install

rm -fr \$RPM\_BUILD\_ROOT

mkdir -p \$RPM\_BUILD\_ROOT

make install prefix=\$RPM\_BUILD\_ROOT/usr infodir=\$RPM\_BUILD\_ROOT% {\_infodir}

rm -f \$RPM\_BUILD\_ROOT% {\_infodir}/dir

```

%clean
rm -fr $RPM_BUILD_ROOT
make distclean

%post
/sbin/ldconfig
/sbin/install-info % {_infodir}/gpgme.info.gz
% {_infodir}/dir
/sbin/install-info % {_infodir}/gpgme-python-howto.info.gz % {_infodir}/dir

%preun
if [ "$1" = 0 ]; then
/sbin/install-info --delete % {_infodir}/gpgme.info.gz % {_infodir}/dir
/sbin/install-info --delete % {_infodir}/gpgme-python-howto.info.gz % {_infodir}/dir
fi

%postun
/sbin/ldconfig

%files
%defattr(-,root,root)
%doc COPYING COPYING.LESSER AUTHORS README INSTALL NEWS ChangeLog TODO THANKS
%attr(0755,root,root) % {_bindir}/gpgme-config
%attr(0755,root,root) % {_libdir}/*gpgme.so*
%attr(0755,root,root) % {_libdir}/*gpgme.la
%attr(0644,root,root) % {_libdir}/*gpgme.a
% {_includedir}/gpgme.h
% {_datadir}/aclocal/gpgme.m4
% {_infodir}/gpgme.info*
% {_infodir}/gpgme-python-howto.info*

%changelog
* Sat Aug 30 2003 Robert Schiele <rschiele@uni-mannheim.de>
- % {_infodir}/dir is not packaged, remove to prevent checking failure
* Mon Jul 01 2002 Wojciech Polak <polak@lodz.pdi.net>
- initial specfile release for GPGME.

# EOF

```

# 1.693 json-c 0.13.1-3.el8

## 1.693.1 Available under license :

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## 1.694 mongodb-driver-core 4.0.5

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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/lang/Nullable.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/WriteConcernHelper.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/lang/NonNull.java

\*

/opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/TransactionOptions.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-

jar/com/mongodb/internal/async/client/AsyncClientSessionImpl.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
jar/com/mongodb/lang/package-info.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
jar/com/mongodb/internal/connection/ReadConcernAwareNoOpSessionContext.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
jar/com/mongodb/internal/connection/ReadConcernHelper.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
jar/com/mongodb/internal/operation/ServerVersionHelper.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
jar/com/mongodb/lang/NonNullApi.java

\*  
/opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
jar/com/mongodb/internal/async/client/AsyncClientSession.java  
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\* <https://github.com/marianobarrios/tls-channel>  
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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
jar/com/mongodb/internal/connection/tlschannel/NeedsWriteException.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
jar/com/mongodb/internal/connection/tlschannel/BufferAllocator.java  
\*  
/opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
jar/com/mongodb/internal/connection/tlschannel/TrackingAllocator.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
jar/com/mongodb/internal/connection/tlschannel/TlsChannelFlowControlException.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferUtil.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-

```
jar/com/mongodb/internal/connection/tlschannel/TlsChannelBuilder.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannelGroup.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/WouldBlockException.java
*
/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferSet.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/impl/BufferHolder.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/ExtendedAsynchronousByteChannel.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/ClientTlsChannel.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/util/TlsChannelCallbackException.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/util/Util.java
*
/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannel.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/impl/TlsChannelImpl.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/NeedsTaskException.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/NeedsReadException.java
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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jar/com/mongodb/connection/netty/ReadTimeoutHandler.java

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jar/com/mongodb/annotations/Beta.java

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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
*/

```

Found in path(s):

```

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/ConcurrentLinkedDeque.java
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* https://github.com/marianobarrios/tls-channel
*/
/**
* Writes a sequence of bytesProduced to this channel from a subsequence of the
* given buffers.
*
* <p>
* See { @link GatheringByteChannel#write(ByteBuffer[], int, int) } for
more
* details of the meaning of this signature.
*
* <p>
* This method behaves slightly different than the interface specification,
* with respect to non-blocking responses, see { @link #write(ByteBuffer) }

```



```

* for more details.
*
* @param srcs The buffers from which bytesProduced are to be retrieved
* @param offset The offset within the buffer array of the first buffer from
*       which bytesProduced are to be retrieved; must be non-negative and no
*       larger than <tt>srcs.length</tt>
* @param length The maximum number of buffers to be accessed; must be
*       non-negative and no larger than <tt>srcs.length</tt>
*       &nbsp;  &nbsp; <tt>offset</tt>
* @return The number of bytesProduced written, contrary to the behavior specified
* in { @link ByteChannel }, this method never returns 0, but throws
* { @link WouldBlockException }
* @throws IndexOutOfBoundsException If
the preconditions on the <tt>offset</tt> and
*       <tt>length</tt> parameters do not hold
* @throws WouldBlockException     if the channel is in non-blocking mode and the IO operation
*       cannot be completed immediately
* @throws NeedsTaskException      if the channel is not configured to run tasks automatically
*       and a task needs to be executed to complete the operation
* @throws SSLException            if the { @link SSLEngine } throws a SSLException
* @throws IOException              if the underlying channel throws an IOException
*/
/**
* Reads a sequence of bytesProduced from this channel into a subsequence of the
* given buffers.
*
* <p>
* See { @link ScatteringByteChannel#read(ByteBuffer[], int, int) } for more
* details of the meaning of this signature.
*
* <p>
* This method behaves slightly different
than the interface specification,
* with respect to non-blocking responses, see { @link #read(ByteBuffer) } for
* more details.
*
* @param dsts The buffers into which bytesProduced are to be transferred
* @param offset The offset within the buffer array of the first buffer into
*       which bytesProduced are to be transferred; must be non-negative and no
*       larger than <tt>dsts.length</tt>
* @param length The maximum number of buffers to be accessed; must be
*       non-negative and no larger than <tt>dsts.length</tt>
*       &nbsp;  &nbsp; <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/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/TlsChannel.java
```

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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/annotations/NotThreadSafe.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/annotations/Immutable.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/annotations/ThreadSafe.java
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- \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/event/ConnectionPoolListener.java
- \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/GetMoreProtocol.java
- \*
- /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/gridfs/AsyncGridFSUploadStream.java
- \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/ReadOperation.java
- \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/validator/UpdateFieldNameValidator.java
- \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/AsyncListDatabasesIterableImpl.java
- \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/session/ClientSession.java
- \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/changestream/ChangeStreamDocument.java
- \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/connection/TlsChannelStreamFactoryFactory.java
- \*
- /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/DefaultServerMonitorFactory.java
- \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/CollectionInfoRetriever.java
- \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/DnsSrvRecordMonitorFactory.java
- \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/Cluster.java
- \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/BulkWriteOptions.java
- \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/ElementExtendingBsonWriter.java
- \*
- /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/AsyncAggregateIterable.java
- \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/selector/ServerSelector.java
- \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/diagnostics/logging/Loggers.java
- \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/DeleteProtocol.java
- \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/CreateViewOptions.java
- \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-

jar/com/mongodb/internal/connection/ChangeEvent.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/client/model/geojson/Point.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/connection/DefaultConnectionPool.java  
 \*  
 /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/connection/AsynchronousSocketChannelStream.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/ReadPreference.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/connection/AbstractMultiServerCluster.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/validator/CollectibleDocumentFieldNameValidator.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/connection/ChangeListener.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/client/model/Indexes.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/binding/ConnectionSource.java  
 \*  
 /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/connection/AbstractReferenceCounted.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/connection/netty/NettyBufferProvider.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/client/model/geojson/Polygon.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/connection/GSSAPIAuthenticator.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/client/model/DeleteOptions.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/async/client/OperationExecutorImpl.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/client/model/FindOneAndDeleteOptions.java  
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 /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
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 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/MongoInterruptedException.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/BSONTimestampCodec.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/connection/NoOpSessionContext.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/connection/ClusterClockAdvancingSessionContext.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/dns/DefaultDnsResolver.java

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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/client/result/DeleteResult.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/management/ConnectionPoolStatisticsMBean.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/connection/ClusterId.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/event/package-info.java
*

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/opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/event/ServerOpeningEvent.java  
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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/ClientSessionHelper.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/ConnectionPool.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/geojson/codecs/GeometryCollectionCodec.java  
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\*  
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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/MongoExecutionTimeoutException.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/AsyncDistinctIterable.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/Operations.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/QueryMessage.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/MongoCursorNotFoundException.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/connection/ServerVersion.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/diagnostics/logging/SLF4JLogger.java  
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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/FieldTrackingBsonWriter.java  
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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/binding/ReadBinding.java  
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/opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/NoOpCommandEventSender.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/gridfs/GridFSIndexCheck.java  
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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/CommandResultDocumentCodec.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/gridfs/AsyncGridFSBuckets.java  
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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/CreateViewOperation.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/binding/AsyncSingleServerBinding.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/InsertOneModel.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/gridfs/codecs/GridFSFileCodecProvider.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/bulk/BulkWriteInsert.java  
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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/Projections.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/connection/netty/NettyByteBuf.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/InternalConnectionInitializer.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/event/ClusterListenerMulticaster.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/IndexOptionDefaults.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/AbortTransactionOperation.java  
\*  
/opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/MongoSocketReadException.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-

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jar/com/mongodb/client/model/DeleteOneModel.java
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jar/com/mongodb/CursorType.java
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/gridfs/GridFSIndexCheckImpl.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/selector/CompositeServerSelector.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/binding/AsyncClusterAwareReadWriteBinding.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/WriteOperationThenCursorReadOperation.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/PlainAuthenticator.java

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/opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/AsyncBatchCursor.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/ResponseCallback.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/CommandProtocolImpl.java

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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/client/model/changestream/ChangeStreamLevel.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/CommandProtocol.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/SocketStream.java

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/opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/MongoServerException.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/DefaultServerMonitor.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/geojson/codecs/PolygonCodec.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/Updates.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/gridfs/AsyncGridFSFindIterable.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/DnsMultiServerCluster.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/ServerAddress.java

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/opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/connection/BufferProvider.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/vault/AsyncClientEncryptions.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/DBRef.java

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jar/com/mongodb/event/ConnectionClosedEvent.java
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/connection/AsynchronousSocketChannelStreamFactory.java

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 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/ServerMonitorFactory.java  
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 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/gejson/codecs/package-info.java  
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 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/CommitTransactionOperation.java  
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/IndexOptions.java

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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/management/ConnectionPoolStatistics.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/MapReduceHelper.java

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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/MongoGridFSException.java

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/opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/Block.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/vault/DataKeyOptions.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/DocumentHelper.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/ClientSessionBinding.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/connection/ConnectionPoolSettings.java

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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/event/ServerListenerMulticaster.java

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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/geojson/codecs/MultiPolygonCodec.java  
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jar/com/mongodb/internal/client/model/AggregationLevel.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/DefaultServer.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/KillCursorsMessage.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/MongoNamespace.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/session/ClientSessionContext.java
*
/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/operation/AggregateOperation.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/CommandHelper.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/client/model/vault/package-info.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/AutoEncryptionSettings.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/dns/DnsResolver.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/client/model/RenameCollectionOptions.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/MongoWriteConcernException.java
*
/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/operation/OperationHelper.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/async/client/AsyncListDatabasesIterable.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/connection/ServerId.java

```

```
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/SplittablePayloadBsonWriter.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/client/model/Filters.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/operation/DropDatabaseOperation.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/event/ServerMonitorListenerAdapter.java
*
/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/selector/package-info.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/client/gridfs/model/GridFSDownloadOptions.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/connection/ServerSettings.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/operation/DeleteOperation.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/ClusterableServerFactory.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/MongoSocketOpenException.java
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```

```
/*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/assertions/Assertions.java
```

## 1.695 frocksdbjni 6.20.3-ververica-1.0

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jar/com/google/gson/ToNumberStrategy.java
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jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java  
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jar/com/google/gson/internal/JsonReaderInternalAccess.java  
\* /opt/cola/permits/1331093984\_1653033295.598981/0/gson-2-9-0-sources-1-  
jar/com/google/gson/TypeAdapterFactory.java  
\* /opt/cola/permits/1331093984\_1653033295.598981/0/gson-2-9-0-sources-1-  
jar/com/google/gson/TypeAdapter.java  
\* /opt/cola/permits/1331093984\_1653033295.598981/0/gson-2-9-0-sources-1-  
jar/com/google/gson/internal/bind/JsonTreeReader.java  
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jar/com/google/gson/internal/bind/JsonTreeWriter.java  
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\* /opt/cola/permits/1331093984\_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/stream/JsonScope.java

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\* /opt/cola/permits/1331093984\_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/stream/JsonWriter.java

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- \* /opt/cola/permits/1331093984\_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/Gson.java
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- \* /opt/cola/permits/1331093984\_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/JsonIOException.java
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- \* /opt/cola/permits/1331093984\_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/FieldNamingPolicy.java

\* /opt/cola/permits/1331093984\_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/JsonParseException.java  
\*  
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- \* /opt/cola/permits/1331093984\_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/bind/TreeTypeAdapter.java

# 1.701 mitchellh-mapstructure v1.5.0

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# -----
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```
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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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## 1.704.1 Available under license :

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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On Debian GNU systems, the complete text of the GNU General

```

Public License can be found in `usr/share/common-licenses/GPL-2'.
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)

```

\$(RM) -f ../\$(BSD\_LIB)

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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```

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Theodore Ts'o  
23-June-2007

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```
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```

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```
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```

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<signature of Ty Coon>, 1 April 1989  
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#### THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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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 | Year | Owner | GPL-            |
|---------|---------|------|-------|-----------------|
|         | from    |      |       | 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  |            |         |
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# 1.710 netty 4.1.70.Final

## 1.710.1 Available under license :

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Manifest-Version: 1.0

Implementation-Title: Netty/All-in-One

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name:

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

Bundle-SymbolicName: io.netty.all

Implementation-Version: 4.1.70.Final  
Built-By: norman  
Bnd-LastModified: 1635932641304  
Bundle-ManifestVersion: 2  
Implementation-Vendor-Id: io.netty  
Bundle-DocURL: https://netty.io/  
Bundle-Vendor: The Netty Project  
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;  
version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="  
[1,2)";resolution:=optional  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Bundle-Name: Netty/All-in-One  
Bundle-Version: 4.1.70.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_252  
Implementation-URL:  
https://netty.io/netty-all/

Found in path(s):

\* /opt/cola/permits/1350955670\_1656067697.948119/0/netty-all-4-1-70-final-jar/META-INF/MANIFEST.MF  
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\* /opt/cola/permits/1350955670\_1656067697.948119/0/netty-all-4-1-70-final-jar/META-INF/maven/io.netty/netty-all/pom.xml

## 1.711 e2fsprogs 1.45.6-5.el8

## 1.711.1 Available under license :

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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#

# This is a Makefile stub which handles the creation of BSD shared  
# libraries.

```

#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB)`)

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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```

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
  
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell            2005
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Gadi Oxman, August 1995

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```
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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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Theodore Ts'o  
23-June-2007

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```

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

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relink to produce a modified

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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```
# COPYING.other          -*- org -*-  
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#+STARTUP: showall
```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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# 1.716 pcre 10.32-3.el8\_6

## 1.716.1 Available under license :

PCRE2 LICENCE

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PCRE2 is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a just-in-time compiler that can be used to optimize pattern matching. This is an optional feature that can be omitted when the library is built.

### THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: ph10  
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* license: MIT (http://opensource.org/licenses/MIT)  
* author: yFiles for HTML Support Team <yfileshtml@yworks.com>  
* homepage: https://github.com/yWorks/svg2pdf.js#readme  
* version: 1.1.0  
*  
* svgpath:  
* license: MIT (http://opensource.org/licenses/MIT)  
* maintainers: vitality <vitality@rcdesign.ru>  
* homepage: https://github.com/fontello/svgpath#readme  
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```
/**
* @license Highcharts JS v6.0.3 (2017-11-14)
* Wind barb series module
*
```

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\*  
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Client side exporting module

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\* /opt/cola/permits/1392458499\_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/modules/offline-exporting.js

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/\*

Highcharts JS v6.0.3 (2017-11-14)  
Sankey diagram module

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Highcharts JS v6.0.3 (2017-11-14)  
Drag-panes module

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Author: Kacper Madej

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\* /opt/cola/permits/1392458499\_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/modules/drag-panes.js  
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```
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/*  
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Copyright (c) 2014 Niklas von Hertzen
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```
*/  
/*  
* base64-arraybuffer  
* https://github.com/niklasvh/base64-arraybuffer  
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/*  
# PNG.js  
# Copyright (c) 2011 Devon Govett  
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```
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 * (c) 2009-2017 Torstein Honsi
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```

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```
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/themes/skies.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/themes/dark-blue.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/themes/gray.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/modules/overlapping-
datalabels.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/gray.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/modules/series-label.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/themes/grid.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/themes/grid-light.src.js
*
/opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/modules/series-label.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/modules/heatmap.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/modules/overlapping-
datalabels.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/themes/dark-green.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/modules/broken-axis.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/grid-light.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/modules/heatmap.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/themes/dark-unica.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/sand-signika.src.js
*
/opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/dark-unica.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/themes/sand-signika.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/dark-blue.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/skies.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/grid.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/modules/broken-axis.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/dark-green.src.js
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```

```
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 * @license Highcharts JS v6.0.3 (2017-11-14)
 * Streamgraph module
 *
 * (c) 2010-2017 Torstein Honsi
 *
 * License: www.highcharts.com/license
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Authors: Jon Arild Nygard

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\* /opt/cola/permits/1392458499\_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/modules/wordcloud.js

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\* Highcharts funnel module

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\* Data module

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\*/

/\*\*

\* A comma delimited string to be parsed. Related options are [startRow](#data.

\* startRow), [endRow](#data.endRow), [startColumn](#data.startColumn)

\* and [endColumn](#data.endColumn) to delimit what part of the table

\* is used. The [lineDelimiter](#data.lineDelimiter) and [itemDelimiter](#data.

\* itemDelimiter) options define the CSV delimiter formats.

\*

\* The built-in CSV parser doesn't support all flavours of CSV, so in

\* some cases it may be necessary to use an external CSV parser. See

\* [this example](<http://jsfiddle.net/highcharts/u59176h4/>) of parsing

\* CSV through the MIT licensed [Papa Parse](<http://papaparse.com/>)

\* library.

\*

\* @type {String}

\* @sample {highcharts} highcharts/data/csv/ Data from CSV

\* @since 4.0

\* @product highcharts

\* @apioption data.csv

\*/

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\* Highmaps as a plugin for Highcharts 4.1.x or Highstock 2.1.x (x being the patch version of this file)

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Highmaps as a plugin for Highcharts 4.1.x or Highstock 2.1.x (x being the patch version of this file)

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Bullet graph series type for Highcharts

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\* Vector plot series module

\*

\* (c) 2010-2017 Torstein Honsi

\*

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\* @license canvg.js - Javascript SVG parser and renderer on Canvas

\* MIT Licensed

\* Gabe Lerner (gabelerner@gmail.com)

\* <http://code.google.com/p/canvg/>

\*

\* Requires: [rgbcolor.js](http://www.phpied.com/rgb-color-parser-in-javascript/) - <http://www.phpied.com/rgb-color-parser-in-javascript/>

```
*
*/
/**
* @license Highcharts JS v4.2.7 (2016-09-21)
* CanVGRenderer Extension module
*
* (c) 2011-2016 Torstein Honsi, Erik Olsson
*
* License: www.highcharts.com/license
*/
```

Found in path(s):

```
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/modules/canvas-tools.src.js
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```

```
/**
* @license Highcharts JS v6.0.3 (2017-11-14)
*
* (c) 2014 Highsoft AS
* Authors: Jon Arild Nygard / Oystein Moseng
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*/
```

Found in path(s):

```
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/modules/treemap.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/modules/treemap.src.js
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```

```
/*
Highcharts JS v6.0.3 (2017-11-14)
```

Item series type for Highcharts

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```
*/
```

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```
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/modules/item-series.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/modules/item-series.js
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```

```
/*
Highcharts JS v6.0.3 (2017-11-14)
Vector plot series module
```



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\* Highcharts variwide module

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\* @license Highcharts JS v6.0.3 (2017-11-14)

\* Plugin for displaying a message when there is no data visible in chart.

\*

\* (c) 2010-2017 Highsoft AS

\* Author: Oystein Moseng

\*

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Highcharts variwide module

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\* /opt/cola/permits/1392458499\_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/sunset.js

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Variable Pie module for Highcharts

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\* /opt/cola/permits/1392458499\_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/modules/variable-pie.js

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Highcharts JS v6.0.3 (2017-11-14)

StaticScale

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Highcharts JS v6.0.3 (2017-11-14)

X-range series

(c) 2010-2017 Torstein Honsi, Lars A. V. Cabrera

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\* Author: Sebastian Domas

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Highcharts JS v6.0.3 (2017-11-14)

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Authors: Jon Arild Nygard / Oystein Moseng

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\* jsPDF - PDF Document creation from JavaScript

\* Version 1.2.68 Built on 2017-07-18T14:26:05.034Z

\* CommitID 38732db74a

\*

\* Copyright (c) 2010-2014 James Hall <james@parall.ax>, <https://github.com/MrRio/jsPDF>

\* 2010 Aaron Spike, <https://github.com/acspike>

\* 2012 Willow Systems Corporation, [willow-systems.com](http://willow-systems.com)

\* 2012 Pablo Hess, <https://github.com/pablohess>

\* 2012 Florian Jenett, <https://github.com/fjenett>

\* 2013 Warren Weckesser, <https://github.com/warrenweckesser>

\* 2013 Youssef Beddad, <https://github.com/lifof>

\* 2013 Lee Driscoll, <https://github.com/lsdriscoll>

\* 2013 Stefan Slonevskiy, <https://github.com/stefslon>

\* 2013 Jeremy Morel, <https://github.com/jmorel>

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\* 2014 James Makes, <https://github.com/dollaruw>

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\* kim3er, mfo, alnorth, Flamenco

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/\*\*

\* jsPDF AcroForm Plugin

```
* Copyright (c) 2016 Alexander Weidt, https://github.com/BiggA94
*
* Licensed under the MIT License.
* http://opensource.org/licenses/mit-license
*/
/** @preserve
* jsPDF split_text_to_size plugin - MIT license.
* Copyright (c) 2012 Willow Systems Corporation, willow-systems.com
*     2014 Diego Casorran, https://github.com/diegocr
*/
/**
Resources:
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*/
/* Blob.js
* A Blob implementation.
* 2014-07-24
*
* By Eli Grey, http://eligrey.com
* By Devin Samarin, https://github.com/dsamarin
* License: X11/MIT
* See https://github.com/eligrey/Blob.js/blob/master/LICENSE.md
*/
/* FileSaver.js
* A saveAs() FileSaver implementation.
* 1.1.20151003
*
* By Eli Grey, http://eligrey.com
* License: MIT
* See https://github.com/eligrey/FileSaver.js/blob/master/LICENSE.md
*/
/*
Deflate.js - https://github.com/gildas-lormeau/zip.js
Copyright (c) 2013 Gildas Lormeau. All rights reserved.
```

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```
*/
/*
    html2canvas 0.5.0-alpha
    <http://html2canvas.hertzen.com>
    Copyright (c) 2014 Niklas von Hertzen

    Released under MIT License
*/
/*
    * base64-arraybuffer
    * https://github.com/niklasvh/base64-arraybuffer
    *
    * Copyright (c) 2012 Niklas von Hertzen
    * Licensed under the MIT license.
*/
/*
# PNG.js
# Copyright (c) 2011 Devon Govett
# MIT LICENSE
#
#
*/
```

Found in path(s):

```
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/lib/jspdf.src.js
```

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 *
 * (c) 2009-2017 Highsoft AS
 *
 * License: www.highcharts.com/license
 */
```

Found in path(s):

```
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/themes/avocado.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/themes/sunset.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/sunset.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/avocado.src.js
```

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```
*/
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```
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/grid-light.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/grid.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/sand-signika.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/modules/broken-axis.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/modules/series-label.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/gray.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/skies.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/modules/heatmap.js
*
/opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/modules/overlapping-
datalabels.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/modules/series-label.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/dark-green.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/themes/gray.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/dark-unica.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/themes/dark-blue.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/modules/heatmap.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/modules/broken-axis.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/themes/dark-blue.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/themes/dark-green.js
*
```

```
/opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/themes/grid-light.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/modules/overlapping-
datalabels.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/themes/dark-unica.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/themes/grid.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/themes/sand-signika.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/themes/skies.js
No license file was found, but licenses were detected in source scan.
```

```
/*
Highcharts JS v6.0.3 (2017-11-14)
Plugin for displaying a message when there is no data visible in chart.
```

(c) 2010-2017 Highsoft AS  
Author: Oystein Moseng

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```
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* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/modules/no-data-to-
display.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/modules/no-data-to-
display.js
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```

```
/**
* @license Highcharts
*
* (c) 2009-2016 Torstein Honsi
*
* License: www.highcharts.com/license
*/
```

```
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* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/css/highcharts.scss
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/css/highcharts.css
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```

```
/**
* @license Highcharts JS v6.0.3 (2017-11-14)
*
* 3D features for Highcharts JS
*
* @license: www.highcharts.com/license
*/
/**
* (c) 2010-2017 Torstein Honsi
```



```
*
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*/
```

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```
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/highcharts-3d.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/highcharts-3d.src.js
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```

```
/**
* @license Highcharts JS v6.0.3 (2017-11-14)
*
* Variable Pie module for Highcharts
*
* (c) 2010-2017 Grzegorz Blachliski
*
* License: www.highcharts.com/license
*/
```

Found in path(s):

```
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/modules/variable-pie.src.js
* /opt/cola/permits/1392458499_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/modules/variable-pie.src.js
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```

```
/**
* @license Highcharts JS v6.0.3 (2017-11-14)
* Annotations module
*
* (c) 2009-2017 Torstein Honsi
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No license file was found, but licenses were detected in source scan.
```

```
/*
Highcharts JS v6.0.3 (2017-11-14)
Gantt series

(c) 2016 Lars A. V. Cabrera
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canvg.js - Javascript SVG parser and renderer on Canvas

MIT Licensed

Gabe Lerner ([gabelerner@gmail.com](mailto:gabelerner@gmail.com))

<http://code.google.com/p/canvg/>

Requires: [rgbcolor.js](http://www.phpied.com/rgb-color-parser-in-javascript/) - <http://www.phpied.com/rgb-color-parser-in-javascript/>

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\* GridAxis

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\* /opt/cola/permits/1392458499\_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/modules/boost.src.js

\* /opt/cola/permits/1392458499\_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/modules/boost-canvas.src.js

\* /opt/cola/permits/1392458499\_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/modules/boost-canvas.src.js

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\* Gantt series

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\*

\* Bullet graph series type for Highcharts

\*

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\* /opt/cola/permits/1392458499\_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/modules/bullet.src.js

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```
/** @preserve
 * canvg.js - Javascript SVG parser and renderer on Canvas
 * MIT Licensed
 * Gabe Lerner (gabelerner@gmail.com)
 * http://code.google.com/p/canvg/
 *
 * Requires: rgbcolor.js - http://www.phpied.com/rgb-color-parser-in-javascript/
 */
```

Found in path(s):

\* /opt/cola/permits/1392458499\_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/lib/canvg.src.js

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

```
/**
 * @license Highcharts JS v5.0.14 (2017-07-28)
 * X-range series
 *
 * (c) 2010-2017 Torstein Honsi, Lars A. V. Cabrera
 *
 * --- WORK IN PROGRESS ---
 *
 * License: www.highcharts.com/license
 */
```

Found in path(s):

\* /opt/cola/permits/1392458499\_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/modules/xrange-series.src.js  
\* /opt/cola/permits/1392458499\_1660727548.54736/0/highcharts-6-0-3-1-tgz/package/js/modules/xrange-series.src.js

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

```
/*
Highcharts JS v6.0.3 (2017-11-14)
Accessibility module
```

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A class to parse color values

@author Stoyan Stefanov <[sstoo@gmail.com](mailto:sstoo@gmail.com)>

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\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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## 1.722 chill\_2.12 0.7.6

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\* /opt/cola/permits/1424688866\_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/config/ScalaAnyRefMapConfig.scala

\* /opt/cola/permits/1424688866\_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/ScalaKryoInstantiator.scala  
\* /opt/cola/permits/1424688866\_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/EitherSerializer.scala  
\*  
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\* /opt/cola/permits/1424688866\_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/config/ReflectingInstantiatorBuilder.scala  
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Found in path(s):

\* /opt/cola/permits/1424688866\_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/MeatLocker.scala

## 1.723 slf4j 1.7.36

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```

```
/**
```

```
* A Base64 encoder/decoder.
```

```
*
```

```
* <p>
```

```
* This class is used to encode and decode data in Base64 format as described in RFC 1521.
```

```
*
```

```
* <p>
```

```
* Project home page: <a href="http://www.source-code.biz/base64coder/java/">www.
```

\* source-code.biz/base64coder/java</a><br>  
\* Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland<br>  
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\* /opt/cola/permits/1427131089\_1664278353.0883758/0/snakeyaml-1-33-sources-jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java

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# 1.725 pcre 8.39-12ubuntu0.1

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## THE BASIC LIBRARY FUNCTIONS

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## 1.726 audit 2.8.5-2ubuntu6

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43mI,5WEV @@ WEV @mImImIAmImImI0mImImI\*mImI  
A0mImImI...  
lost+found...

;9GimCN7g

!"#\$%&'()\*+,-  
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!"#\$%&'()\*+,-  
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~

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./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~

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## 1.730 yargs 14.2.3

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# 1.732 ssl-config-core 0.3.7

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Manifest-Version: 1.0  
Automatic-Module-Name: ssl.config.core  
Bnd-LastModified: 1540430403480  
Bundle-Description: ssl-config-core  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.txt>;description=Apache-2.0  
Bundle-ManifestVersion: 2  
Bundle-Name: ssl-config-core  
Bundle-SymbolicName: com.typesafe.sslconfig  
Bundle-Vendor: Lightbend  
Bundle-Version: 0.3.7  
Created-By: 1.8.0\_171 (Oracle Corporation)  
Export-Package: com.typesafe.sslconfig.ssl;version="0.3.7";uses:="com.typesafe.config,com.typesafe.sslconfig.util,javax.naming,ldap,javax.net.ssl,scala,scala.collection,scala.collection.immutable,scala.collection.mutable,scala.reflect,scala.runtime,scala.util,scala.util.matching,scala.util.parsing.combinator,scala.util.parsing.input",com.typesafe.sslconfig.ssl.debug;version="0.3.7";uses:="com.typesafe.sslconfig,com.typesafe.sslconfig.util,scala,scala.collection.immutable,scala.reflect,scala.runtime",com.typesafe.sslconfig.util;version="0.3.7";uses:="com.typesafe.config,scala,scala.collection,scala.collection.immutable,scala.concurrent.duration,scala.reflect"  
Implementation-Title: ssl-config-core  
Implementation-Vendor: Lightbend

Implementation-Vendor-Id: com.typesafe  
Implementation-Version: 0.3.7  
Import-Package: com.typesafe.config;version="[1.3.0,1.4.0)",com.typesafe.sslconfig.ssl;version="[0.3,1)",com.typesafe.sslconfig.util;version="[0.3,1)",javax.crypto,javax.crypto.interfaces,javax.crypto.spec,javax.naming,javax.naming.ldap,javax.net.ssl,javax.security.auth.kerberos,javax.security.auth.x500,scala;version="[2.12,3)",scala.collection;version="[2.12,3)",scala.collection.convert;version="[2.12,3)",scala.collection.generic;version="[2.12,3)",scala.collection.immutable;version="[2.12,3)",scala.collection.mutable;version="[2.12,3)",scala.concurrent.duration;version="[2.12,3)",scala.reflect;version="[2.12,3)",scala.runtime;version="[2.12,3)",scala.runtime.java8;version="[2.12,3)",scala.util;version="[2.12,3)",scala.util.control;version="[2.12,3)",scala.util.matching;version="[2.12,3)",scala.util.parsing.combinator;version="[1.1,2)",scala.util.parsing.input;version="[1.1,2)"  
Private-Package: com.typesafe.sslconfig.\*  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version>=1.8))"  
"  
Specification-Title: ssl-config-core  
Specification-Vendor: Lightbend  
Specification-Version: 0.3.7  
Tool: Bnd-4.0.0.201805111645

Found in path(s):

\* /opt/cola/permits/1434541356\_1666743225.880146/0/ssl-config-core-2-12-0-3-7-jar/META-INF/MANIFEST.MF

## 1.733 emoji-regex 7.0.3

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## 1.738 libnpmorg 1.0.1

### 1.738.1 Available under license :

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# 1.739 zlib 1.2.11.dfsg-2ubuntu1.5

## 1.739.1 Available under license :

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

```
/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.7 12 August 2012  Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
```

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

```
/* gzclose.c -- zlib gzclose() function
* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
```

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

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

-----  
MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0. All possible work was done for compatibility.

Background

-----  
When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal ( <http://www.gdal.org/> )

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

-----  
\* Added ZIP64 support for unzip ( by Even Rouault )  
\* Added ZIP64 support for zip ( by Mathias Svensson

)

- \* Reverted some changes that Even Rouault did.
- \* Bunch of patches received from Gilles Vollant that he received for MiniZip from various users.
- \* Added unzip patch for BZIP Compression method (patch created by Daniel Borca)
- \* Added BZIP Compression method for zip
- \* Did some refactoring and code cleanup

## Credits

Gilles Vollant - Original MiniZip author  
Even Rouault - ZIP64 unzip Support  
Daniel Borca - BZip Compression method support in unzip  
Mathias Svensson - ZIP64 zip support  
Mathias Svensson - BZip Compression method support in zip

## Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.  
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>

Zip File specification

## Notes.

- \* To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE\_BZIP2 need to be defined.

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-----

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2. Altered source versions must be plainly marked as such, and must not be



misrepresented as being the original software.

3. This notice may  
not be removed or altered from any source distribution.

-----  
Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64\_info.txt

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

/\* compress.c -- compress a memory buffer

\* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c

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

/\* zconf.h -- configuration of the zlib compression library

\* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein

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

/\*

\* gzlog.c

\* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved

\* For conditions of distribution and use, see copyright notice in gzlog.h

\* version 2.2, 14 Aug 2012

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c

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

/\* deflate.c -- compress data using the deflation algorithm

\* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c

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

Not copyrighted -- provided to the public domain

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib\_how.html

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

/\* zutil.h -- internal interface and configuration of the compression library

\* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h

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

/\* uncompr.c -- decompress a memory buffer

\* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c

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

# For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

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

/\* trees.c -- output deflated data using Huffman coding

\* Copyright (C) 1995-2017 Jean-loup Gailly

\* detect\_data\_type() function provided freely by Cosmin Truta, 2006

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c

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

```
/* gzread.c -- zlib functions for reading gzip files
```

```
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c

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

```
/* unzip.c -- IO for uncompress .zip files using zlib
```

```
Version 1.1, February 14h, 2010
```

```
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )
```

Copyright (C) 1998-2010 Gilles Vollant (<http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.  
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying

file LICENSE, version 2000-Apr-09 or later

(the contents of which are also included in zip.h) for terms of use.

If, for some reason, all these files are missing, the Info-ZIP license also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

-----  
Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos  
2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*  
2007-2008 - Even Rouault - Remove old C style function prototypes  
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G should only read the compressed/uncompressed size from the Zip64 format if the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

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

/\* example.c -- usage example of the zlib compression library

\* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

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

/\* gzwrite.c -- zlib functions for writing gzip files  
\* Copyright (C) 2004-2017 Mark Adler  
\* For conditions of distribution and use, see copyright notice in zlib.h  
\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c  
No license file was found, but licenses were detected in source scan.

/\* Adler32.c -- compute the Adler-32 checksum of a data stream  
\* Copyright (C) 1995-2011, 2016 Mark Adler  
\* For conditions of distribution and use, see copyright notice in zlib.h  
\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c  
No license file was found, but licenses were detected in source scan.

## Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html)

### 1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

### 2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL\_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

### 3. Where can I get a Visual Basic interface to zlib?

See

\* <http://marknelson.us/1997/01/01/zlib-engine/>

\* win32/DLL\_FAQ.txt in the zlib distribution

### 4. compress() returns Z\_BUF\_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual

Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

### 5. deflate() or inflate() returns Z\_BUF\_ERROR.

Before making the call, make sure that avail\_in and avail\_out are not zero. When setting the parameter flush equal to Z\_FINISH, also make sure that avail\_out is big enough to allow processing all pending input. Note that a Z\_BUF\_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z\_BUF\_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail\_out returns with zero. See [http://zlib.net/zlib\\_how.html](http://zlib.net/zlib_how.html) for a heavily annotated example.

### 6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at [zlib@gzip.org](mailto:zlib@gzip.org) . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files libz.\* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/>. To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/>.

17. Why am I getting this "register\_frame\_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (`cc` or `gcc`). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The `compress` and `deflate` functions produce data in the zlib format, which is different and incompatible with the `gzip` format. The `gz*` functions in zlib on the other hand use the `gzip` format. Both the `zlib` and `gzip` formats use the same compressed data format internally, but have different headers and trailers around the compressed data.



19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*` functions use `stdio` library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's `*Init*` functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is zlib under the GNU license?

No. Please read the license in `zlib.h`.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` #defines in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers `x.x.x.f` are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in `zlib.h` you should change `ZLIB_VERNUM` to `0x123f`, and `ZLIB_VERSION` to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in `deflate.c` and `inftrees.c`.

For altered source distributions, you should also note the origin and nature of the changes in `zlib.h`, as well as in `ChangeLog` and `README`, along

with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with `zlib.h` and `zconf.h` is also a source distribution, and so you should change `ZLIB_VERSION` and `ZLIB_VERNUM` and note the origin and nature of the changes in `zlib.h` as you would for a full source distribution.

25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's `contrib/blast` directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See `examples/zran.c`.

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total\_in and strm\_total\_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/>.

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses `malloc()` by default for allocations, whereas earlier versions used `calloc()`, which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the `comp.compression` FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

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

/\* inftrees.h -- header to use inftrees.c

\* Copyright (C) 1995-2005, 2010 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h

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

/\* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c

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

/\* deflate.h -- internal compression state

\* Copyright (C) 1995-2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h

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

/\*

Additional tools for Minizip

Code: Xavier Roche '2004

License: Same as ZLIB (www.gzip.org)

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c

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

/\* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

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-----

#### Changes

See header of unzip64.c

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

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

/\* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c

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



```
/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
No license file was found, but licenses were detected in source scan.
```

```
/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
No license file was found, but licenses were detected in source scan.
```

```
/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
No license file was found, but licenses were detected in source scan.
```

```
/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
No license file was found, but licenses were detected in source scan.
```

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017
```

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

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

/\* gzguts.h -- zlib internal header definitions for gz\* operations

\* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h

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

/\* zip.h -- IO on .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications for Zip64 support

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
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-----  
Changes

See header of zip.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

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

/\* inftrees.c -- generate Huffman trees for efficient decoding

\* Copyright (C) 1995-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c

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

/\* inflate.c -- zlib decompression

\* Copyright (C) 1995-2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
```

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

```
/* zpipe.c: example of proper use of zlib's inflate() and deflate()
```

```
Not copyrighted -- provided to the public domain
```

```
Version 1.4 11 December 2005 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
```

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## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [zlib@gzip.org](mailto:zlib@gzip.org), or to Gilles Vollant [info@winimage.com](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson [markn@ieee.org](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>

.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/> .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL\_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and

zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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jloup@gzip.org      madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.
```

```
/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
```

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Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
```

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

```
/* inffast.h -- header to use inffast.c
```

```
* Copyright (C) 1995-2003, 2010 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
```

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

```
/* zran.c -- example of zlib/gzip stream indexing and random access
```

```
* Copyright (C) 2005, 2012 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
Version 1.1 29 Sep 2012 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
```

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

```
/* inffback.c -- inflate using a call-back interface
```

```
* Copyright (C) 1995-2016 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffback.c
```

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

```
/* gzlog.h
```

```
Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
```

```
version 2.2, 14 Aug 2012
```

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\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h

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

/\* fitblk.c: example of fitting compressed output to a specified size

Not copyrighted -- provided to the public domain

Version 1.1 25 November 2004 Mark Adler \*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c

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/\* gzlib.c -- zlib functions common to reading and writing gzip files

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\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c

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/\* infcover.c -- test zlib's inflate routines with full code coverage

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\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c



# 1.740 apache-commons-text 1.9

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## 1.742 zlib 1.2.13

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\*/

/\*

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

The text itself is coming out of the languages/\*stg files, according to the chosen locale.

This file contains the format that mimicks GCC output.

\*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "<text> [error <id>]"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg

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\*/

tree grammar SourceGenTriggers;

```

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

```

```

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

```

```

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

```

```

dummy : block[null, null] ;

```

```

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

```

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

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

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

```
@init {
    // set alt if outer ALT only (the only ones with alt field set to Alternative object)
    AltAST altAST = (AltAST)retval.start;
    if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
: {
    List<SrcOp> elems = new ArrayList<SrcOp>();
    // TODO: shouldn't we pass $start to controller.alternative()?
    $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
    $altCodeBlock.ops = $ops = elems;
    controller.setCurrentBlock($altCodeBlock);
}
^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

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

element returns [List<? extends SrcOp> omos]

```
: labeledElement    {$omos = $labeledElement.omos;}
| atom[null,false]  {$omos = $atom.omos;}
| subrule           {$omos = $subrule.omos;}
| ACTION           {$omos = controller.action((ActionAST)$ACTION);}
| SEMPRED          {$omos = controller.sempred((ActionAST)$SEMPRED);}
| ^(ACTION elementOptions) {$omos = controller.action((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {$omos = controller.sempred((ActionAST)$SEMPRED);}
;
```

labeledElement returns [List<? extends SrcOp> omos]

```
: ^(ASSIGN ID atom[$ID,false] ) {$omos = $atom.omos;}
| ^(PLUS_ASSIGN ID atom[$ID,false] ) {$omos = $atom.omos;}
| ^(ASSIGN ID block[$ID,null] ) {$omos = $block.omos;}
| ^(PLUS_ASSIGN ID block[$ID,null] ) {$omos = $block.omos;}
;
```

subrule returns [List<? extends SrcOp> omos]

```

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

```

```

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

```

```

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

```

```

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT

```

```

atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(NOT
a=atom[$label, true]) {$omos = $a.omos;}
| range[label]   {$omos = $range.omos;}
| ^(DOT ID terminal[$label])
| ^(DOT ID ruleref[$label])
| ^(WILDCARD .)   {$omos = controller.wildcard($WILDCARD, $label);}
| WILDCARD       {$omos = controller.wildcard($WILDCARD, $label);}
| terminal[label] {$omos = $terminal.omos;}
| ruleref[label] {$omos = $ruleref.omos;}
| blockSet[$label, invert] {$omos = $blockSet.omos;}
;

```

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

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

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

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

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

Found in path(s):

```
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/codegen/SourceGenTriggers.g
```

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```
/*
```

```
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```

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```

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- \* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
- \*/

```
javaTypeInitMap ::= [
  "int": "0",
  "long": "0",
  "float": "0.0f",
  "double": "0.0",
  "boolean": "false",
  "byte": "0",
  "short": "0",
  "char": "0",
  default: "null" // anything other than a primitive type is an object
]
```

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

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
  <fileHeader(file.grammarFileName,
  file.ANTLRVersion)>
  <if(file.genPackage)>
  package <file.genPackage>;
  <endif>
  <namedActions.header>
  import org.antlr.v4.runtime.atn.*;
  import org.antlr.v4.runtime.dfa.DFA;
  import org.antlr.v4.runtime.*;
  import org.antlr.v4.runtime.misc.*;
  import org.antlr.v4.runtime.tree.*;
  import java.util.List;
  import java.util.Iterator;
  import java.util.ArrayList;
```

```
<parser>
```

```
>>
```

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

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

```
<if(file.genPackage)>
```

```
package <file.genPackage>;
```

```
<endif>
```

```
<header>
```

```
import org.antlr.v4.runtime.tree.ParseTreeListener;
```

```
/**
```

```
 * This interface defines a complete listener for a parse tree produced by
```

```
 * { @link <file.parserName> }.
```

```
 */
```

```
public interface <file.grammarName>Listener extends ParseTreeListener {
```

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

```
  /**
```

```
  <if(file.listenerLabelRuleNames.(Iname))>
```

```
  * Enter a parse tree produced by the { @code <Iname>\}
```

```
  * labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(Iname)>\}.
```

```
  <else>
```

```
  * Enter a parse tree produced by { @link <file.parserName>#<Iname>\}.
```

```
  <endif>
```

```
  * @param ctx the parse tree
```

```
  */
```

```
void enter<Iname; format="cap">(<file.parserName>.<Iname; format="cap">Context ctx);
```

```
/**
```

```
  <if(file.listenerLabelRuleNames.(Iname))>
```

```
  * Exit a parse tree produced by the { @code <Iname>\}
```

```
  * labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(Iname)>\}.
```

```
  <else>
```

```
  * Exit a parse tree produced by { @link <file.parserName>#<Iname>\}.
```

```
  <endif>
```

```
  * @param ctx the parse tree
```

```
  */
```

```
void exit<Iname; format="cap">(<file.parserName>.<Iname; format="cap">Context ctx);}; separator="\n">
```

```
}
```

```
>>
```

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

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

```
<if(file.genPackage)>
```

```
package <file.genPackage>;
```

```
<endif>
```

```
<header>
```

```
import org.antlr.v4.runtime.ParserRuleContext;
```

```

import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

/**
 * This class provides an empty implementation of { @link <file.grammarName>Listener},
 * which can be extended to create a listener which only needs to handle a subset
 * of the available methods.
 */
public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
    <file.listenerNames: {lname |
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \};
    separator="\n">

/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void enterEveryRule(ParserRuleContext ctx) { }
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void exitEveryRule(ParserRuleContext ctx) { }
/**
 * { @inheritDoc\}
 *
 * \<p>The default
 implementation does nothing.\</p>
 */
    @Override public void visitTerminal(TerminalNode node) { }
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */

```

```

    @Override public void visitErrorNode(ErrorNode node) { }
}
>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

/**
 * This interface defines a complete generic visitor for a parse tree produced
 * by { @link <file.parserName> }.
 *
 * @param <T> The return type of the visit operation. Use { @link Void } for
 * operations with no return type.
 */
public interface <file.grammarName>Visitor<T> extends ParseTreeVisitor<T> {
    <file.visitorNames:{ lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
 * Visit a parse tree produced by the { @code <lname>}
 * labeled alternative in { @link <file.parserName>#<file.visitorLabelRuleNames.(lname)>} .
<else>
 * Visit a parse tree produced by { @link <file.parserName>#<lname>} .
<endif>
 * @param ctx the parse tree
 * @return the visitor result
 */
T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n"
}
>>

```

```

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
 * This class provides an empty implementation of { @link <file.grammarName>Visitor},
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.
 */

```

```

* @param <T> The return type of the visit operation. Use { @link Void } for
* operations with no return type.
*/
public class <file.grammarName>BaseVisitor<T> extends AbstractParseTreeVisitor<T> implements
<file.grammarName>Visitor<T> {
    <file.visitorNames:{lname |
/**
* { @inheritDoc\}
*
* \<p>The default
implementation returns the result of calling
* { @link #visitChildren\} on { @code ctx\}.\</p>
*/
@Override public T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { return
visitChildren(ctx); \} }; separator="\n">
}
>>

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

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <parser.name> extends <superClass; null="Parser"> {
    static { RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION); }

    protected static final DFA[] _decisionToDFA;
    protected static final PredictionContextCache _sharedContextCache =
        new PredictionContextCache();
    <if(parser.tokens)>
    public static final int
        <parser.tokens:{k | <k>=<parser.tokens.(k)>};
    separator=", ", wrap, anchor>;
    <endif>
    <if(parser.rules)>
    public static final int
        <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
    <endif>
    private static String[] makeRuleNames() {
        return new String[] {
            <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
        };
    }
}

```

```

public static final String[] ruleNames = makeRuleNames();

<vocabulary(parser.literalNames, parser.symbolicNames)>

@Override
public String getGrammarFileName() { return "<parser.grammarFileName; format="java-escape">"; }

@Override
public String[] getRuleNames() { return ruleNames; }

@Override
public String getSerializedATN() { return _serializedATN; }

@Override
public ATN getATN() { return _ATN; }

<namedActions.members>
<parser:(ctor)()>
<funcs; separator="\n">

<if(sempredFuncs)>
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <parser.sempredFuncs.values:{f}
case <f.ruleIndex>:
return
<f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
    }
return true;
    }
<sempredFuncs.values; separator="\n">
<endif>

<atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static String[] makeLiteralNames() {
return new String[] {
    <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
}
private static final String[] _LITERAL_NAMES = makeLiteralNames();
private static String[] makeSymbolicNames() {
return new String[] {
    <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
}

```

```

}
private static final String[] _SYMBOLIC_NAMES = makeSymbolicNames();
public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES,
_Symbolic_NAMES);

/**
 * @deprecated Use {@link #VOCABULARY} instead.
 */
@Deprecated
public static final String[] tokenNames;
static {
    tokenNames = new String[_SYMBOLIC_NAMES.length];
    for (int i = 0; i < tokenNames.length; i++) {
        tokenNames[i] = VOCABULARY.getLiteralName(i);
        if (tokenNames[i]
            == null) {
            tokenNames[i] = VOCABULARY.getSymbolicName(i);
        }

        if (tokenNames[i] == null) {
            tokenNames[i] = "\<INVALID>";
        }
    }
}

@Override
@Deprecated
public String[] getTokenNames() {
    return tokenNames;
}

@Override

public Vocabulary getVocabulary() {
    return VOCABULARY;
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
    switch (ruleIndex) {
        <recog.actionFuncs.values: {f}
    case <f.ruleIndex>:
        <f.name>_action((<f.ctxType>)_localctx, actionIndex);
        break;}; separator="\n"
    }
}

```

```

}
<actionFuncs.values; separator="\n">
<endif>
<if( sempredFuncs)>
@Override
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <recog.sempredFuncs.values: { f |
case <f.ruleIndex>:
    return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
    }
    return true;
    }
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p)
::= <<
public <p.name>(TokenStream input) {
    super(input);
    _interp = new ParserATNSimulator(this, _ATN, _decisionToDFA, _sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
    switch (actionIndex) {
        <actions: { index |
case <index>:
        <actions.(index)>
        break;}; separator="\n">
    }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private boolean <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
    switch (predIndex) {
        <actions: { index |
case <index>:
        return <actions.(index)>;}; separator="\n">
}
}

```



```
}  
return true;  
}  
>>
```

```
RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)  
::= <<
```

```
<ruleCtx>  
<altLabelCtxs:{l | <altLabelCtxs.l>}>; separator="\n">  
  
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>  
<currentRule.name><(<args>; separator=",")> throws RecognitionException {  
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState())<currentRule.args:{a | ,  
<a.name>}>);  
  enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);  
  <namedActions.init>  
  <locals; separator="\n">  
  try {  
    <if(currentRule.hasLookaheadBlock)>  
      int _alt;  
    <endif>  
    <code>  
    <postamble; separator="\n">  
    <namedActions.after>  
  }  
  <if(exceptions)>  
    <exceptions; separator="\n">  
  <else>  
    catch (RecognitionException re) {  
      _localctx.exception = re;  
      _errHandler.reportError(this, re);  
      _errHandler.recover(this, re);  
    }  
  <endif>  
  finally {  
    <finallyAction>  
    exitRule();  
  }  
  return _localctx;  
}  
>>
```

```
LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,  
namedActions,finallyAction,postamble)  
::=  
<<
```

```

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

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name><(<args; separator=", ">) throws RecognitionException {
return <currentRule.name><(0<currentRule.args:{a | , <a.name>}>);
}

private <currentRule.ctxType> <currentRule.name><(int _p<args:{a | , <a>}>) throws RecognitionException {
ParserRuleContext _parentctx = _ctx;
int _parentState = getState();
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.name>}>);
<currentRule.ctxType> _prevctx = _localctx;
int _startState = <currentRule.startState>;
enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
}
catch (RecognitionException
re) {
_localctx.exception = re;
_errHandler.reportError(this, re);
_errHandler.recover(this, re);
}
finally {
<finallyAction>
unrollRecursionContexts(_parentctx);
}
return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<

```

```
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>
```

```
LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;};
separator="\n">
default:
<error>
}
>>
```

```
LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
break;
}
>>
```

```
LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
if (<expr>) {
<alts; separator="\n">
}
<!else if ( !(<followExpr> ) ) <error!>
>>
```

```
LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
```

```

while (<loopExpr>) {
  <alts; separator="\n">
  setState(<choice.loopBackStateNumber>);
  _errHandler.sync(this);
  <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
<preamble;
separator="\n">
do {
  <alts; separator="\n">
  setState(<choice.stateNumber>); <! loopback/exit decision !>
  _errHandler.sync(this);
  <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
  <alts:{ alt |
case <i>:
  <alt>
  break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
  <alts:{ alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<

```

```

setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while ( _alt!=<choice.exitAlt>
&& _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
<iteration>
<alts> <! should only be one !>
}
setState(<choice.loopBackStateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
switch ( _alt ) {
<alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
default:
<error>
}
setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER );
>>

```

```

Sync(s) ::= "sync(<s.expecting.name>);"

```

```

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

```

```

TestSetInline(s)

```

```

::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

```

```

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test

```

```

testShiftInRange(shiftAmount) ::= <<

```

```

((<shiftAmount>) & ~0x3f) == 0

```

```

>>

```

```

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1L \<< <offsetShift(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>===<ttype>}>;
separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case <t>}; separator="\n">
>>

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

MatchToken(m) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>match(<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>_input.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
<if(m.labels)><m.labels:{1 | <labelref(l)> = (Token)}><endif>_errHandler.recoverInline(this);

```

```

}
else {
  if ( _input.LA(1)==Token.EOF ) matchedEOF = true;
  _errHandler.reportMatch(this);
  consume();
}
>>

Wildcard(w)
 ::= <<
  setState(<w.stateNumber>);
  <if(w.labels)><w.labels:{1 | <labelref(1)> = }><endif>matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
  setState(<p.stateNumber>);
  if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
  <failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
  catch (<catchArg>) {
    <catchAction>
  }
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip();"
LexerMoreCommand() ::= "more();"
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg, grammar) ::= "_type = <arg>";
LexerChannelCommand(arg, grammar) ::= "_channel = <arg>";
LexerModeCommand(arg, grammar) ::= "_mode = <arg>";
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::=
  "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"

```

```

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

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

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getText():null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getType():0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getLine():0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0)"
TokenPropertyRef_int(t)
::= "(<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText()):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?<ctx(r)>.<r.label>.start():null)"
RulePropertyRef_stop(r) ::= "(<ctx(r)>.<r.label>!=null?<ctx(r)>.<r.label>.stop():null)"
RulePropertyRef_text(r) ::=
"(<ctx(r)>.<r.label>!=null?_input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r) ::= "_localctx.stop"
ThisRulePropertyRef_text(r) ::= "_input.getText(_localctx.start, _input.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= "(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
"(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name>
= <rhsChunks>";

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType() <t.name>"
TokenTypeDecl(t) ::= "int <t.name>;"
TokenListDecl(t) ::= "List<Token> <t.name> = new ArrayList<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List<<rdecl.ctxName>> <rdecl.name> = new ArrayList<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t) ::=
"public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"

```



```

ContextTokenListGetterDecl(t) ::=
    "public List<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t) ::= <<
public TerminalNode <t.name>(int i) {
    return getToken(<parser.name>.<t.name>, i);
}
>>
ContextRuleGetterDecl(r)    ::= <<
public <r.ctxName> <r.name>() {
    return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r) ::= <<
public
List<<<r.ctxName>>> <r.name>() {
    return getRuleContexts(<r.ctxName>.class);
}
>>
ContextRuleListIndexedGetterDecl(r) ::= <<
public <r.ctxName> <r.name>(int i) {
    return getRuleContext(<r.ctxName>.class,i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName)    ::= "<ruleName>"
ImplicitSetLabel(id)           ::= "_tset<id>"
ListLabelName(label)          ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = _input.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = _input.LA(1);"

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers)
::= <<
public static class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif> {
    <attrs:{a | public <a>;}; separator="\n">
    <getters:{g
    | <g>; separator="\n">
    <if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) { super(parent, invokingState);

```

```

}<endif>
public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{ a | , <a>}>) {
    super(parent, invokingState);
    <struct.ctorAttrs:{ a | this.<a.name> = <a.name>;}; separator="\n">
}
@Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)><! don't need copy unless we have subclasses !>
public <struct.name>() { }
public void copyFrom(<struct.name> ctx) {
    super.copyFrom(ctx);
    <struct.attrs:{ a | this.<a.name> = ctx.<a.name>;}; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
public static class <struct.name> extends <currentRule.name; format="cap">Context {
    <attrs:{ a | public <a>;}; separator="\n">
    <getters:{ g | <g>;}; separator="\n">
    public <struct.name>(<currentRule.name;
    format="cap">Context ctx) { copyFrom(ctx); }
    <dispatchMethods; separator="\n">
}
>>

```

```

ListenerDispatchMethod(method) ::= <<
@Override
public void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
    if ( listener instanceof <parser.grammarName>Listener )
    ((<parser.grammarName>Listener)listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
    format="cap">(this);
}
>>

```

```

VisitorDispatchMethod(method) ::= <<
@Override
public <T> T accept(ParseTreeVisitor\<? extends T> visitor) {
    if ( visitor instanceof <parser.grammarName>Visitor ) return ((<parser.grammarName>Visitor\<? extends
    T>)visitor).visit<struct.derivedFromName; format="cap">(this);
    else return visitor.visitChildren(this);
}
>>

```

```

AttributeDecl(d) ::= "<d.type> <d.name><if(d.initValue)> = <d.initValue><endif>"

```

```

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>((<x.ctx.name>)_localctx).<endif><x.name>"

/** For any
action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "((<actionChunk.ctx.name>)_localctx)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>;"
recRuleSetStopToken() ::= "_ctx.stop = _input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
<if(label)>_localctx.<label> = _prevctx;<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.add(_prevctx);
<else>
((<currentAltLabel;
format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
_ctx = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( _parseListeners!=null ) triggerExitRuleEvent();
_prevctx = _localctx;

```

>>

```
LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
package <lexerFile.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.Lexer;
import org.antlr.v4.runtime.CharStream;
import org.antlr.v4.runtime.Token;
import org.antlr.v4.runtime.TokenStream;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.misc.*;
```

<lexer>

>>

```
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
@SuppressWarnings({"all",
"warnings", "unchecked", "unused", "cast"})
public class <lexer.name> extends <superClass; null="Lexer"> {
static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }
```

```
protected static final DFA[] _decisionToDFA;
protected static final PredictionContextCache _sharedContextCache =
new PredictionContextCache();
<if(lexer.tokens)>
public static final int
<lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>
<if(lexer.channels)>
public static final int
<lexer.channels:{c | <c>=<lexer.channels.(c)>}; separator=", ", wrap, anchor>;
<endif>
<if(rest(lexer.modes))>
public static final int
<rest(lexer.modes):{m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>
public static String[] channelNames = {
"DEFAULT_TOKEN_CHANNEL", "HIDDEN" <if (lexer.channels)>, <lexer.channels:{c | "<c>"}; separator=", ",
wrap, anchor><endif>
};

public static String[] modeNames = {
```

```

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

private static String[] makeRuleNames() {
return new String[] {
<lexer.ruleNames:{r| "<r>"}; separator=", ", wrap, anchor>
};
}
public static final String[] ruleNames = makeRuleNames();

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

<namedActions.members>

public <lexer.name>(CharStream input) {
super(input);
_interp = new LexerATNSimulator(this, _ATN, _decisionToDFA, _sharedContextCache);
}

@Override
public String getGrammarFileName() { return "<lexer.grammarFileName>"; }

@Override
public String[] getRuleNames() { return ruleNames; }

@Override
public String getSerializedATN() { return _serializedATN; }

@Override
public String[] getChannelNames() { return channelNames; }

@Override
public String[] getModeNames() { return modeNames; }

@Override
public ATN getATN() { return _ATN; }

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

SerializedATN(model) ::= <<
<if(rest(model.segments))>
<! requires
segmented representation !>
private static final int _serializedATNSegments = <length(model.segments)>;

```

```

<model.segments:{segment|private static final String _serializedATNSegment<i0> =
"<segment; wrap="{ "+<\n><\t>">";}; separator="\n">
public static final String _serializedATN = Utils.join(
new String[] {
<model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
},
""
);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
"<model.serialized; wrap="{ "+<\n><\t>">";
<endif>
public static final ATN _ATN =
new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
_decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
for (int i = 0; i < _ATN.getNumberOfDecisions(); i++) {
_decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
}
<! org.antlr.v4.tool.DOTGenerator dot = new org.antlr.v4.tool.DOTGenerator(null);!>
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2],
ruleNames, false));!>
}
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".java"

```

Found in path(s):

```

* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg

```

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\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/parse/ANTLR Lexer.java

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

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

javascriptTypeInitMap ::= [
  "bool":"false",
  "int":"0",
  "float":"0.0",
  "str": "",
  default: "{}" // anything
other than a primitive type is an object
]

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

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

```



```

<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';
<if(file.genListener)>
import <file.grammarName>Listener from './<file.grammarName>Listener.js';
<endif>
<if(file.genVisitor)>
import <file.grammarName>Visitor from './<file.grammarName>Visitor.js';
<endif>

<namedActions.header>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

// This class defines a complete listener for a parse tree produced by <file.parserName>.
export default class <file.grammarName>Listener extends antlr4.tree.ParseTreeListener {

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

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

}; separator="\n">

}
>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

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

export default class <file.grammarName>Visitor extends antlr4.tree.ParseTreeVisitor {

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

```

```

\}

}; separator="\n">

}
>>

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

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';
<endif>

<atn>

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

const decisionsToDFA = atn.decisionToState.map( (ds,
index) => new antlr4.dfa.DFA(ds, index) );

const sharedContextCache = new antlr4.PredictionContextCache();

export default class <parser.name> extends <superClass; null="antlr4.Parser"> {

  static grammarFileName = "<parser.grammarFileName; format="java-escape">";
  static literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
  static symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
  static ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

  constructor(input) {
    super(input);
    this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
    this.ruleNames = <parser.name>.ruleNames;
    this.literalNames = <parser.name>.literalNames;
    this.symbolicNames = <parser.name>.symbolicNames;
    <namedActions.members>
  }

  get atn() {
    return atn;
  }

  <if(sempredFuncs)>

```

```

sempred(localctx, ruleIndex, predIndex) {
  switch(ruleIndex) {
    <parser.sempredFuncs.values:{f | case <f.ruleIndex>:
      return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
    default:
      throw "No predicate with index:" + ruleIndex;
  }
}

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

<funcs; separator="\n">

}

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

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

<funcs:{f | <ruleContexts(f)>}; separator="\n">

<! Define fields of this parser to export the context classes !>
<parser.funcs:{f | <parser.name>.<f.ctxType> = <f.ctxType>; }; separator="\n">

>>

ruleContexts(currentRule) ::= <<
<currentRule.ruleCtx>

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

dumpActions(recog,
  argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action = function(localctx, ruleIndex, actionIndex) {
  switch (ruleIndex) {
    <recog.actionFuncs.values:{f|
  case <f.ruleIndex>:
    this.<f.name>_action(localctx, actionIndex);
    break;}; separator="\n">

```

```

default:
  throw "No registered action for:" + ruleIndex;
}
};

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
  switch (ruleIndex) {
    <recog.sempredFuncs.values:{f} case <f.ruleIndex>:
  return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
    default:
      throw "No registered predicate for:" + ruleIndex;
  }
};

```

```

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

```

```

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

```

RuleActionFunction(r, actions) ::= <<

```

```

<lexer.name>.prototype.<r.name>_action = function(localctx
, actionIndex) {
  switch (actionIndex) {
    <actions:{index|
case <index>:
    <actions.(index)>
  break;}; separator="\n">
    default:
      throw "No registered action for:" + actionIndex;
  }
};
>>

```

```

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

```

RuleSempredFunction(r, actions) ::= <<

```

```

<if (r.factory.g.lexer)><lexer.name>.prototype.<r.name>_sempred =
function<else><r.name>_sempred<endif>(localctx, predIndex) {
  switch(predIndex) {
    <actions:{index| case <index>:

```

```

return <actions.(index)>;}; separator="\n">
default:
  throw "No predicate with index:" + predIndex;
}
};

```

>>

```

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

```

```

<currentRule.name><(currentRule.args:{ a | <a.name>}; separator=", ">) {
  let localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{ a | , <a.name>}>);
  this.enterRule(localctx,
  <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">
  try {
    <code>
    <postamble; separator="\n">
    <namedActions.after>
  }<if(exceptions)>
  <exceptions; separator="\n">
  <else> catch (re) {
    if(re instanceof antlr4.error.RecognitionException) {
      localctx.exception = re;
      this._errHandler.reportError(this, re);
      this._errHandler.recover(this, re);
    } else {
      throw re;
    }
  }<endif> finally {
    <finallyAction>
    this.exitRule();
  }
  return localctx;
}

```

>>

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
  namedActions,finallyAction,postamble) ::=
<<

```

```

<currentRule.name>(_p<if(currentRule.args)>, <args:{ a | , <a>}><endif>) {
  if(_p===undefined) {
    _p = 0;

```

```

}
const _parentctx = this._ctx;
const _parentState = this.state;
let localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{ a
| , <a.name>}>);
let _prevctx = localctx;
const _startState = <currentRule.startState>;
this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p);
<namedActions.init>
<locals; separator="\n">
try {
  <code>
  <postamble; separator="\n">
  <namedActions.after>
} catch( error) {
  if(error instanceof antlr4.error.RecognitionException) {
    localctx.exception = error;
    this._errHandler.reportError(this, error);
    this._errHandler.recover(this, error);
  } else {
    throw error;
  }
} finally {
  <finallyAction>
  this.unrollRecursionContexts(_parentctx)
}
return localctx;
}

```

>>

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(this, localctx);<endif>
this.enterOuterAlt(localctx,
  <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>

```

>>

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">

```

>>

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);

```

```

<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break; }; separator="\n">
default:
  <error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
switch (this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break; }; separator="\n">
default:
  break;
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble;
separator="\n">
if(<expr>) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr> ) <error!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
while(<loopExpr>) {
  <alts; separator="\n">
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  <iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>

```

```

this._errHandler.sync(this);
<preamble; separator="\n">
do {
  <alts; separator="\n">
  this.state = <choice.stateNumber>; <! loopback/exit decision !>
  this._errHandler.sync(this);
  <iteration>
} while(<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble;
separator="\n">
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
switch(la_) {
<alts:{alt |
case <i>:
  <alt>
  break;
}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{alt |
if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
  <alt>
}; separator="\n} else ">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx)
while(!_alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
  if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
    <iteration>
    <alts> <! should only be one !>
  }
}

```



```

    this.state = <choice.loopBackStateNumber>;
    this._errHandler.sync(this);
    _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}

```

```
>>
```

```

PlusBlock(choice,
  alts, error) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
var _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
  switch (_alt) {
    <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
    break;}; separator="\n">
  default:
    <error>
  }
  this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
  this._errHandler.sync(this);
  _alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );
>>

```

```
Sync(s) ::= "sync(<s.expecting.name>)"
```

```
ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"
```

```

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

```

```

// Javascript language spec - shift operators are 32 bits long max
testShiftInRange(shiftAmount)
::= <<
((<shiftAmount>) & ~0x1f) == 0
>>

```

```

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)}); separator=" | ">)) != 0)
%>

```

```

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes: { ttype | <s.varName>===<parser.name>.<ttype> }; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes: { t | case <parser.name>.<t>; separator="\n">
>>

InvokeRule(r,
argExprsChunks) ::= <<
this.state = <r.stateNumber>;
<if(r.labels)><r.labels: {1 | <labelref(l)> =
}><endif>this.<r.name><(<if(r.ast.options.p)><r.ast.options.p><(<if(argExprsChunks)><endif><endif><argExprsChu
nks>);
>>

MatchToken(m) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels: {1 | <labelref(l)> = }><endif>this.match(<parser.name>.<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels: {1 | <labelref(l)> = }>this._input.LT(1);<endif>
<capture>
<if(invert)>if(<m.varName><=<0 || <expr>><else>if(!(<expr>))<endif> {
  <if(m.labels)><m.labels: {1 | <labelref(l)> = }><endif>this._errHandler.recoverInline(this);
}
else {
  this._errHandler.reportMatch(this);

```

```

    this.consume();
}
>>

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{1
| <labelref(1)> = }><endif>this.matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
this.state = <p.stateNumber>;
if (!( <chunks>)) {
    throw new antlr4.error.PredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "this.skip()"
LexerMoreCommand() ::= "this.more()"
LexerPopModeCommand() ::= "this.popMode()"
LexerTypeCommand(arg, grammar) ::= "this._type = <arg>"
LexerChannelCommand(arg, grammar) ::= "this._channel = <arg>"
LexerModeCommand(arg, grammar) ::= "this._mode = <arg>"
LexerPushModeCommand(arg, grammar) ::= "this.pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a)
    ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */

```

```

TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

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

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label>====null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t)
 ::= "<ctx(t)>.<t.label> === null ? 0 : parseInt(<ctx(t)>.<t.label>.text)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>====null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>====null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "<ctx(r)>.<r.label>====null ? null : this._input.getText(new
antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= "this.getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "this.getInvokingContext(<s.ruleIndex>).<s.name>
 = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);"

TokenDecl(t) ::= "this.<t.name> = null; // <TokenLabelType()>"
TokenTypeDecl(t) ::= "var <t.name> = 0; // <TokenLabelType()> type"
TokenListDecl(t) ::= "this.<t.name> = []; // of <TokenLabelType()>s"
RuleContextDecl(r) ::= "this.<r.name> = null; // <r.ctxName>"
RuleContextListDecl(rdecl) ::= "this.<rdecl.name> = []; // of <rdecl.ctxName>s"

ContextTokenGetterDecl(t) ::= <<
<t.name>() {
    return this.getToken(<parser.name>.<t.name>, 0);
};
>>

```

```

// should never be called
ContextTokenListGetterDecl(t) ::= <<
<t.name>_list() {
    return this.getTokens(<parser.name>.<t.name>);
}
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
<t.name> = function(i) {
    if(i===undefined) {
        i = null;
    }
    if(i===null) {
        return this.getTokens(<parser.name>.<t.name>);
    } else {
        return this.getToken(<parser.name>.<t.name>, i);
    }
};
>>

ContextRuleGetterDecl(r)
::= <<
<r.name>() {
    return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

// should never be called
ContextRuleListGetterDecl(r) ::= <<
<r.name>_list() {
    return this.getTypedRuleContexts(<parser.name>.<r.ctxName>);
}
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
<r.name> = function(i) {
    if(i===undefined) {
        i = null;
    }
    if(i===null) {
        return this.getTypedRuleContexts(<r.ctxName>);
    } else {
        return this.getTypedRuleContext(<r.ctxName>,i);
    }
};
>>

```

```

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers)
 ::= <<
class <struct.name> extends <if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif> {

    constructor(parser, parent, invokingState<struct.ctorAttrs:{ a | , <a.name>}> ) {
        if(parent===undefined) {
            parent = null;
        }
        if(invokingState===undefined || invokingState===null) {
            invokingState = -1;
        }
        super(parent, invokingState);
        this.parser = parser;
        this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
        <attrs:{ a | <a>} ; separator="\n">
        <struct.ctorAttrs:{ a | this.<a.name> = <a.name> || null;} ; separator="\n">
    }

    <getters:{ g | <g>} ; separator="\n\n">

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

}

>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context {

    constructor(parser, ctx) {
        super(parser);
        <attrs:{ a | <a>;}; separator="\n">
        super.copyFrom(ctx);
    }

    <getters:{ g | <g>;}; separator="\n\n">

    <dispatchMethods; separator="\n">

}

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

>>

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

>>

VisitorDispatchMethod(method) ::= <<
accept(visitor) {
    if ( visitor instanceof <parser.grammarName>Visitor ) {
        return visitor.visit<struct.derivedFromName; format="cap">(this);
    } else {
        return visitor.visitChildren(this);
    }
}

>>

AttributeDecl(d) ::= "this.<d.name> = <if(d.initValue)><d.initValue><else>null<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

```

```

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "this.precpred(this._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
recRuleSetStopToken() ::= "this._ctx.stop = this._input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = new <ctxName>Context(this, _parentctx, _parentState);
<if(label)>localctx.<label> = _prevctx;<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = new <currentAltLabel; format="cap">Context(this,
new <ruleName; format="cap">Context(this, _parentctx, _parentState));
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label> = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = new <ctxName>Context(this, localctx);
this._ctx = localctx;
_prevctx = localctx;
>>

recRuleSetPrevCtx() ::= <<
if(this._parseListeners!=null) {
this.triggerExitRuleEvent();
}
_prevctx = localctx;
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
import antlr4 from 'antlr4';

<namedActions.header>

<lexer>

>>

```



```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';
<endif>

<atn>

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

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds,
index) );

export default class <lexer.name> extends <if(superClass)><superClass><else>antlr4.Lexer<endif> {

    static grammarFileName = "<lexer.grammarFileName>";
    static channelNames = [ "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>,
<lexer.channels:{c| "<c>"}; separator=", ", wrap, anchor><endif> ];
    static modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ];
    static literalNames = [ <lexer.literalNames:{t| <t>}; null="null", separator=", ", wrap, anchor> ];
    static symbolicNames = [ <lexer.symbolicNames:{t| <t>}; null="null", separator=", ", wrap, anchor> ];
    static ruleNames = [ <lexer.ruleNames:{r| "<r>"}; separator=", ", wrap, anchor> ];

    constructor(input) {
        super(input)
        this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.PredictionContextCache());
        <namedActions.members>
    }

    get atn() {
        return atn;
    }
}

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

<if(lexer.channels)>
<lexer.channels:{c| <lexer.name>.<c> = <lexer.channels.(c)>;}; separator="\n">

<endif>
<if(rest(lexer.modes))>
<rest(lexer.modes):{m| <lexer.name>.<m> = <i>;}; separator="\n">

```

```
<endif>
```

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

```
>>
```

```
SerializedATN(model) ::= <<
```

```
<! only one segment, can be inlined !>
```

```
const serializedATN = ["<model.serialized; wrap={", "<\n>  "}>"].join("");
```

```
>>
```

```
/** Using a type to init value map, try to init a type; if not in table
```

```
* must be an object, default value is "null".
```

```
*/
```

```
initValue(typeName) ::= <<
```

```
<javascriptTypeInitMap.(typeName)>
```

```
>>
```

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

Found in path(s):

```
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-  
jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
```

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```
/*
```

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\*/

Found in path(s):

\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/parse/ATNBuilder.java

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\*/

// File : A3Lexer.g

// Author : Jim Idle (jimi@temporal-wave.com)

// Copyright : Free BSD - See @header clause below

// Version : First implemented as part of ANTLR 3.2 this is the self

// hosting ANTLR 3 Lexer.

//

```

// Description
// -----
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are
// derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grmmars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
// for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
// that the lexer tries to defer error reporting to the parser, and the parser
// tries to defer error reporting to a semantic phase consisting of a single
// walk of the AST. The reason for this is that the error messages produced
// from later phases of the parse will generally have better context and so
// be more useful to the end user. Consider the message: "Syntax error at 'options'"
// vs: "You cannot specify two options{ }
// sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
// and report them specifically and not just issue confusing lexer mismatch errors.
//
/** Read in an ANTLR grammar and build an AST. Try not to do
* any actions, just build the tree.
*
* The phases are:
*
* A3Lexer.g (this file)
*   A3Parser.g
*   A3Verify.g (derived from A3Walker.g)
* assign.types.g
* define.g
* buildnfa.g
* antlr.print.g (optional)
* codegen.g
*
* Terence Parr
* University of San Francisco
* 2005
* Jim Idle (this v3 grammar)
* Temporal Wave LLC
* 2009
*/
lexer grammar ANTLRLexer;

```

```

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

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

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

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

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

// Include the copyright
// in this source and also the generated source
//
@lexer::header {
/*
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\*/

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

```
@members {
```

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

```
public CommonTokenStream tokens; // track stream we push to; need for context info
public boolean isLexerRule = false;
```

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

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

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

```
subrule.
```

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

```
*/
```

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

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

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

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

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

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

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

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

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

```
        }
```

```

    i--;
  }
  return null;
}
}

// -----
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We also trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init
{

// Record the start line and offsets as if we need to report an
// unterminated comment, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = $line;
int offset = getCharPositionInLine();
}
: // Eat the first character only, then see if we have a comment
// or something silly.
//
'/' // Comment introducer

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

| // Multi-line comment, which may be a documentation comment

```

```

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

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

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

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

| // There was nothing that made sense following the opening '/' and so
// we issue an error regarding the malformed comment
//
{
    // TODO: Insert error message relative to comment start
    //
}
)
{
    // We do not wish to pass the comments in to the parser. If you are

```



```

    // writing a formatter then you will want to preserve the comments off
    // channel, but could just skip and save token space if not.
    //
    $channel=COMMENTS_CHANNEL;
  }
;

ARG_OR_CHARSET
options {k=1;}
:
{isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
| {!isLexerRule}?=> ARG_ACTION
  {
    $type=ARG_ACTION;
    // Set the token text to our gathered string minus outer [ ]
    String t = $text;
    t = t.substring(1,t.length()-1);
    setText(t);
  }
;

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

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

    | ('')=>ACTION_STRING_LITERAL

    | ('\')=>ACTION_CHAR_LITERAL
  )
;

```

```

    |~([{}])
  )*

  '
;

// -----
// Actions
//
// Other than making sure to distinguish between { and } embedded
//
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
: NESTED_ACTION
( '?' {$type = SEMPRED;}
( (WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
{
Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharPositionInLine(state.tokenStartCharPositionInLine);
grammarError(ErrorType.V3_GATED_SEMPRED, t);
}
)?
)?
;

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

```

```

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

: // Action and other blocks start with opening {
//
'{'
(
// And now we can match one of a number of embedded
// elements within the action until we find a
// } that balances the opening {. If we do not find
// the balanced } then we will hit EOF and can issue
// an error message about the brace that we believe to
// be mismatched. This won't be
foolproof but we will
// be able to at least report an error against the
// opening brace that we feel is in error and this will
// guide the user to the correction as best we can.
//

// An embedded {} block
//
NESTED_ACTION

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

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

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

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

```

```

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

)*

(
  // Correctly balanced closing brace
  //
  '}

|// Looks like have an imbalanced { } block, report
  // with respect to the opening brace.
  //
  {
    // TODO: Report imbalanced { }

    System.out.println("Block starting at line " + startLine + " offset " + (offset+1) + " contains imbalanced { } or is
missing a }");
  }
)
;

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

IMPORT     : 'import'          ;
FRAGMENT   : 'fragment'       ;
LEXER      : 'lexer'           ;
PARSER     : 'parser'         ;
GRAMMAR    : 'grammar'        ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED  : 'protected'

;
PUBLIC     : 'public'          ;
PRIVATE    : 'private'        ;

```

```

RETURNS   : 'returns'   ;
LOCALS    : 'locals'    ;
THROWS    : 'throws'    ;
CATCH     : 'catch'     ;
FINALLY   : 'finally'   ;
MODE      : 'mode'      ;

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

COLONCOLON : '::'      ;
COMMA      : ','      ;
SEMI       : ';'      ;
LPAREN     : '('      ;
RPAREN     : ')'      ;
RARROW     : '->'    ;
LT         : '<'      ;
GT         : '>'      ;
ASSIGN     : '='      ;
QUESTION   : '?'      ;
SYNPRED    : '=>'
    {
        Token t = new CommonToken(input, state.type, state.channel,
            state.tokenStartCharIndex, getCharIndex()-1);
        t.setLine(state.tokenStartLine);
        t.setText(state.text);
        t.setCharPositionInLine(state.tokenStartCharPositionInLine);
        grammarError(ErrorType.V3_SYNPRED, t);
        $channel=HIDDEN;
    }

```

```

    }
    ;
STAR    : '*'      ;
PLUS    : '+'      ;
PLUS_ASSIGN : '+='  ;
OR      : '|'      ;
DOLLAR  : '$'      ;
DOT     : '.'      ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE   : '..'     ;
AT      : '@'      ;
POUND   : '#'      ;
NOT     : '~'      ;
RBRACE  : '}'      ;

```

/\*\* Allow unicode rule/token names \*/

```

ID : a=NameStartChar NameChar*
{
  if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
  else $type = RULE_REF;
}
;

```

fragment

```

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

```

fragment

```

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

```

```

// -----
// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard " and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within
// these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
: "\"" ((\\)=>ACTION_ESC | ~"")* "\""
;

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

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

// -----
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//

```

```

INT :
('0'..'9')+
;

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

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

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

// Any kind of escaped character that we can embed within ANTLR

```



```

// literal strings.
//
fragment
ESC_SEQ
: '\\'
(
    // The standard escaped character set such as tab, newline, etc...
    'b'|'t'|'n'|'f'|'r'|'\"|'\\'

    |// A Java style Unicode escape sequence
    UNICODE_ESC

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

    |// An illegal escape sequence
    ~(b|t|n|f|r|\"|\\|u) // \x for any invalid x (make sure to match char here)
    {
        Token t = new CommonToken(input,
state.type, state.channel, getCharIndex()-2, getCharIndex()-1);
        t.setText(t.getText());
        t.setLine(input.getLine());
        t.setCharPositionInLine(input.getCharPositionInLine()-2);
        grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, input.substring(getCharIndex()-
2,getCharIndex()-1));
    }
)
;

fragment
UNICODE_ESC
@init {

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

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

```

```

(
  HEX_DIGIT { hCount++; }

(
  HEX_DIGIT { hCount++; }
  (
    HEX_DIGIT { hCount++; }
    (
      // Four valid hex digits, we are good
      //
      HEX_DIGIT { hCount++; }

      |// Three valid digits
    )

    |// Two valid digits
  )

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

// Now check the digit count and issue an error if we need to
//
{
  if (hCount < 4) {
    Interval badRange = Interval.of(getCharIndex()-2-hCount, getCharIndex());
    String lastChar = input.substring(badRange.b, badRange.b);
    if ( lastChar.codePointAt(0)!='\ ' ) {
      badRange.b--;
    }
    String bad = input.substring(badRange.a, badRange.b);
    Token t = new CommonToken(input, state.type, state.channel, badRange.a, badRange.b);
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE,
t, bad);
  }
}
;

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

  HEX_DIGIT+ // One or more hexadecimal digits

```

```

    }' // Leadout for unicode extended escape sequence

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

// -----
//
Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
:(
    | '\t'
    | '\r'
    | '\n'
    | '\f'
)+
{$channel=HIDDEN;}
;

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

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//

```

```

fragment
WSCHARS
    : ' ' | '\t' | '\f'
    ;

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

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

// -----
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the grammar file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
    : .
    {
        Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
        t.setLine(state.tokenStartLine);
        t.setText(state.text);
        t.setCharPositionInLine(state.tokenStartCharPositionInLine);
        String msg = getTokenErrorDisplay(t)
+ " came as a complete surprise to me";
        grammarError(ErrorType.SYNTAX_ERROR, t, msg);
        state.syntaxErrors++;
        skip();
    }

```

;

Found in path(s):

\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/parse/ANTLRLexer.g  
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\*/

lexer grammar ActionSplitter;

options { filter=true; }

@header {

package org.antlr.v4.parse;

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

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

}

@members {

```

ActionSplitterListener delegate;

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

/** force filtering
    (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
    List<Token> chunks = new ArrayList<Token>();
    Token t = nextToken();
    while ( t.getType()!=Token.EOF ) {
        chunks.add(t);
        t = nextToken();
    }
    return chunks;
}

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

// ignore comments right away

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

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

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

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

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

```

```

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

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

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

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

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

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

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```

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 \*/

```
SwiftTypeInitMap ::= [
  "Int": "0",
  "Int64": "0",
  "Float": "0.0",
  "Double": "0.0",
  "Bool": "false",
  default: "nil" // anything other than a primitive type is an object
]
SwiftTypeMap ::= [
  "int": "Int",
  "float": "Float",
  "long": "Int64",
  "double": "Double",
  "bool": "Bool",
  "boolean": "Bool",
  default : key
]
// args must be <object-model-object>,
<fields-resulting-in-STs>

accessLevelOpenOK(obj) ::= "<obj.accessLevel; null=\\"open\\">"
accessLevelNotOpen(obj) ::= "<obj.accessLevel; null=\\"public\\">"
```



```

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<parser>
>>

```

```

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

```

```

/**
 * This interface defines a complete listener for a parse tree produced by
 * { @link <file.parserName> }.
 */
<accessLevelNotOpen(file)> protocol <file.grammarName>Listener: ParseTreeListener {
  <file.listenerNames: {lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
 * Enter a parse tree produced by the { @code <lname> \}
 * labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)> \}.
<else>
 * Enter a parse tree produced by { @link <file.parserName>#<lname> \}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)
/**
<if(file.listenerLabelRuleNames.(lname))>
 * Exit a parse tree produced by the { @code <lname> \}
 * labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)> \}.
<else>
 * Exit a parse tree produced by { @link <file.parserName>#<lname> \}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context); separator="\n">

```

```
}  
>>
```

```
BaseListenerFile(file, header, namedActions) ::= <<  
<fileHeader(file.grammarFileName, file.ANTLRVersion)>  
<if(file.genPackage)>  
<!package <file.genPackage>;!>  
<endif>  
<header>
```

```
import Antlr4
```

```
/**  
 * This class provides an empty implementation of { @link <file.grammarName>Listener},  
 * which can be extended to create a listener which only needs to handle  
 * a subset  
 * of the available methods.  
 */  
<accessLevelOpenOK(file)> class <file.grammarName>BaseListener: <file.grammarName>Listener {  
    <accessLevelNotOpen(file)> init() { \}  
    <file.listenerNames:{lname |  
  
/**  
 * { @inheritDoc\}  
 *  
 * \<p>The default implementation does nothing.\</p>  
 */  
<accessLevelOpenOK(file)> func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname;  
format="cap">Context) { \}  
/**  
 * { @inheritDoc\}  
 *  
 * \<p>The default implementation does nothing.\</p>  
 */  
<accessLevelOpenOK(file)> func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname;  
format="cap">Context) { \}; separator="\n">  
  
/**  
 * { @inheritDoc\}  
 *  
 * \<p>The default implementation does nothing.\</p>  
 */  
<accessLevelOpenOK(file)> func enterEveryRule(_ ctx: ParserRuleContext) throws { }  
/**  
 * { @inheritDoc\}  
 *  
 * \<p>The default implementation does nothing.\</p>
```

```

*/
<accessLevelOpenOK(file)> func exitEveryRule(_ ctx: ParserRuleContext) throws { }
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func visitTerminal(_ node: TerminalNode) { }
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func visitErrorNode(_ node: ErrorNode) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
 * This interface defines a complete generic visitor for a parse tree produced
 * by { @link <file.parserName>}.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void} for
 * operations with no return type.
 */
<accessLevelOpenOK(file)> class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
  <file.visitorNames:{Iname |
/**
<if(file.visitorLabelRuleNames.(Iname))>
 * Visit a parse tree produced by the { @code <Iname>}
 * labeled alternative in { @link <file.parserName>#<file.visitorLabelRuleNames.(Iname)>}.
<else>
 * Visit a parse tree produced by { @link <file.parserName>#<Iname>}.
<endif>
- Parameters:
- ctx: the parse tree
- returns: the visitor result
 */
<accessLevelOpenOK(file)> func visit<Iname; format="cap">(_ ctx: <file.parserName>.<Iname;
format="cap">Context) -> T {

```

```

fatalError(#function + " must be overridden")
\}
}; separator="\n">
}
>>

```

```

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
 * This class provides an empty implementation of { @link <file.grammarName>Visitor},
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void} for
 * operations with no return type.
 */
<accessLevelOpenOK(file)> class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {
  <file.visitorNames:{ lname
  |
  /**
  * { @inheritDoc\}
  *
  * \<p>The default implementation returns the result of calling
  * { @link #visitChildren\} on { @code ctx\}.\</p>
  */
  <accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
  format="cap">Context) -> T? { return visitChildren(ctx) \}; separator="\n">
  }
  >>

```

```

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

```

```

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

```

```

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
</*!@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})!>
<accessLevelOpenOK(parser)> class <parser.name>: <superClass; null="Parser"> {

```

```

internal static var _decisionToDFA: [DFA] = {
    var decisionToDFA = [DFA]()
    let length = <parser.name>._ATN.getNumberOfDecisions()
    for i in 0..

```

```

<funcs; separator="\n">

<if(sempredFuncs)>
  override <accessLevelOpenOK(parser)>
  func sempred(_ _localctx:RuleContext?, _ ruleIndex: Int, _ predIndex: Int) throws -> Bool {
    switch (ruleIndex) {
      <parser.sempredFuncs.values: {f}
    case <f.ruleIndex>:
      return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex); separator="\n">
        default: return true
    }
    <!return true;!>
  }
  <sempredFuncs.values; separator="\n">
<endif>

<atn>

<accessLevelNotOpen(parser)>
static let _serializedATN = <parser.name>ATN().jsonString

<accessLevelNotOpen(parser)>
static let _ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

vocabulary(literalNames, symbolicNames,
  accessLevel) ::= <<
private static let _LITERAL_NAMES: [String?] = [
  <literalNames: {t | <t>}; null="nil", separator=", ", wrap, anchor>
]
private static let _SYMBOLIC_NAMES: [String?] = [
  <symbolicNames: {t | <t>}; null="nil", separator=", ", wrap, anchor>
]
<accessLevel>
static let VOCABULARY = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
  override <accessLevelOpenOK(parser)>
  func action(_ _localctx:RuleContext?, _ ruleIndex: Int, _ actionIndex: Int) throws {
    switch (ruleIndex) {
      <recog.actionFuncs.values: {f}
    case <f.ruleIndex>:
      <f.name>_action((_localctx as <f.ctxType>?), actionIndex)
        }; separator="\n">
    default: break
  }
  }

```

```

}
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int, _ predIndex: Int) throws -> Bool {
switch (ruleIndex) {
<recog.sempredFuncs.values: { f |
case <f.ruleIndex>:
return
try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex); separator="\n">
default: return true
}
<!return true;!>
}
<sempredFuncs.values; separator="\n">
<endif>
>>

```

```

parser_ctor(p) ::= <<

```

```

override <accessLevelOpenOK(parser)>
func getVocabulary() -> Vocabulary {
return <p.name>.VOCABULARY
}

```

```

override <accessLevelNotOpen(parser)>
init(_ input:TokenStream) throws {
RuntimeMetaData.checkVersion("4.9.1", RuntimeMetaData.VERSION)
try super.init(input)
_interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
<p.name>._sharedContextCache)
}

```

```

>>

```

```

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

```

RuleActionFunction(r, actions) ::= <<
private func <r.name>_action(_ _localctx: <r.ctxType>?, _ actionIndex: Int) {
switch (actionIndex) {
<actions: { index |
case <index>:
<actions.(index)>
}; separator="\n">
default: break
}
}

```

```
}  
}  
>>
```

```
/* This generates  
a private method since the predIndex is generated, making an  
* overriding implementation impossible to maintain.  
*/
```

```
RuleSempredFunction(r, actions) ::= <<  
private func <r.name>_sempred(_ _localctx: <r.ctxType>!, _ predIndex: Int) throws -> Bool {  
switch (predIndex) {  
<actions:{index|  
case <index>:return <actions.(index)>; separator="\n">  
default: return true  
}  
<!return true;!>  
}  
>>
```

```
RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)  
::= <<  
<ruleCtx>  
<altLabelCtxs:{l | <altLabelCtxs.(l)>; separator="\n">  
@discardableResult  
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelOpenOK(parser)> func  
<endif><currentRule.name>(<if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType> {  
var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, getState())<currentRule.args:{a | ,  
<a.name>}>>  
try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)  
<namedActions.init>  
<locals;  
separator="\n">  
defer {  
    <finallyAction>  
    try! exitRule()  
}  
do {  
<if(currentRule.hasLookaheadBlock)>  
var _alt:Int  
<endif>  
<code>  
<postamble; separator="\n">  
<namedActions.after>  
}  
<if(exceptions)>  
<exceptions; separator="\n">  
<else>  
catch ANTLRException.recognition(let re) {
```



```

    _localctx.exception = re
    _errHandler.reportError(self, re)
    try _errHandler.recover(self, re)
  }
<endif>

return _localctx
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::=
<<

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

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelNotOpen(parser)> final <endif>
func <currentRule.name>( <if(first(args))>_ <endif><args; separator="," _">) throws -> <currentRule.ctxType> {
  return try <currentRule.name>(0<currentRule.args:{a | , <a.name>}>)
}
@discardableResult
private
func <currentRule.name>(_ _p<args:{a | , <a>}>: Int) throws -> <currentRule.ctxType> {
  let _parentctx: ParserRuleContext? = _ctx
  let _parentState: Int = getState()
  var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.name>}>)
  var _prevctx: <currentRule.ctxType> = _localctx
  let _startState: Int = <currentRule.startState>
  try enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  defer {
    <finallyAction>
    try! unrollRecursionContexts(_parentctx)
  }
  do {
  <if(currentRule.hasLookaheadBlock)>
    var _alt: Int
  <endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
  catch ANTLRException.recognition(let re) {
    _localctx.exception = re
    _errHandler.reportError(self, re)

```

```

    try _errHandler.recover(self, re)
  }

  return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble,
ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
try enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<!/{!>
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
<!/{}!>
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt | <cases(ttypes=look)>
<alt>
break }; separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!)
{
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break }; separator="\n">
default:
break
}

```

>>

```
LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
if (<expr>) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr> ) <error>!>
>>
```

```
LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
while (<loopExpr>) {
  <alts; separator="\n">
  setState(<choice.loopBackStateNumber>)
  try _errHandler.sync(self)
  <iteration>
}
>>
```

```
LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>) <! alt block decision !>
try _errHandler.sync(self)
<preamble; separator="\n">
repeat {
  <alts; separator="\n">
  setState(<choice.stateNumber>); <! loopback/exit decision !>
  try _errHandler.sync(self)
  <iteration>
} while (<loopExpr>)
>>
```

//

LL(\*) stuff

```
AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch(try getInterpreter().adaptivePredict(_input,<choice.decision>, _ctx)) {
  <alts:{alt |
case <i>:
  <alt>
```

```

break }; separator="\n">
default: break
}
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break }; separator="\n">
default: break
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
<iteration>
<alts> <! should
only be one !>
}
setState(<choice.loopBackStateNumber>)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
try _errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
repeat {
switch (_alt) {
<alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break }; separator="\n">
default:
<error>
}
setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
try _errHandler.sync(self)

```

```

_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
} while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER)
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw ANTLRException.recognition(e: NoViableAltException(self))"

TestSetInline(s) ::= <<
<!<s.bitsets:{bits | <if(rest(rest(bits.ttypes))>><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}>; separator=" | ">!>
//closure
{ () -> Bool in
  <if(rest(s.bitsets)>>var<else>let<endif> testSet: Bool = <first(s.bitsets):{bits |
<if(rest(rest(bits.ttypes))>><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>}>
  <rest(s.bitsets):{bits | testSet = testSet || <if(rest(rest(bits.ttypes))>><bitsetBitfieldComparison(s,
bits)><else><bitsetInlineComparison(s, bits)><endif>}>; separator="\n">
  return testSet
}()
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <<
<!(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1 \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1 \<< <offsetShift(ttype, bits.shift)>)}; separator=" | ">)) != 0)!>
{ ()
-> Bool in
  <! let test: Bool = (<testShiftInRange({<offsetShift(s.varName, bits.shift)>})>)!>
  <!var temp: Int64 = Int64(<offsetShift(s.varName, bits.shift)>)!>
  <!temp = (temp \< 0) ? (64 + (temp % 64)) : (temp % 64)!>
  <!let test1: Int64 = (Int64(1) \<< temp)!>
  <!var test2: Int64 = (<first(bits.ttypes):{ttype | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>)!>
  <!<rest(bits.ttypes):{ttype | test2 = test2 | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>;
separator="\n">!>
  let testArray: [Int] = [<s.varName>, <bits.ttypes:{ttype |<parserName(ttype)>}>; separator=", ">]
  <!var test2: Int64 = Utils.testBitLeftShiftArray(testArray)!>
  return Utils.testBitLeftShiftArray(testArray, <bits.shift>)
}()
>>

isZero ::= [
"0": true,
default: false

```

```

]
parserName(ttype) ::= <%
<parser.name>.Tokens.<ttype>.rawValue
%>
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

//
produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes: {ttype | <s.varName> == <parser.name>.Tokens.<ttype>.rawValue}; separator=" || ">
%>

cases(ttypes) ::= <<
<trunc(ttypes): {t | case .<t>:fallthrough} ; separator="\n">
<last(ttypes): {t | case .<t>:} ; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
let assignmentValue = try
<r.name><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChunks>
<r.labels: {l | <labelref(l)> = assignmentValue} ; separator="\n">
}()
<else>try
<r.name><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChunks><endif>
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>)
<if(m.labels)>
try {
let assignmentValue = try match(<parser.name>.Tokens.<m.name>.rawValue)
<m.labels: {l | <labelref(l)> = assignmentValue} ; separator="\n">
}()
<else>try match(<parser.name>.Tokens.<m.name>.rawValue)<endif>
>>

MatchSet(m,
expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>)

```

```

<if(m.labels)><m.labels:{1 | <labelref(l)> = }>try _input.LT(1)<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
  <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>try _errHandler.recoverInline(self)<if(m.labels)> as
  Token<endif>
}
else {
  _errHandler.reportMatch(self)
  try consume()
}
>>

Wildcard(w) ::= <<
  setState(<w.stateNumber>)
  <if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>try matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
  setState(<p.stateNumber>)
  if (!(<chunks>)) {
    throw ANTLRException.recognition(e:FailedPredicateException(self, <p.predicate><if(failChunks)>,
    <failChunks><elseif(p.msg)>, <p.msg><endif>))
  }
  >>

ExceptionClause(e, catchArg, catchAction) ::= <<
  catch (<catchArg>) {
    <catchAction>
  }
  >>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip()"
LexerMoreCommand() ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg) ::= "_type = <arg>"
LexerChannelCommand(arg) ::= "_channel = <arg>"
LexerModeCommand(arg) ::= "_mode = <arg>"
LexerPushModeCommand(arg) ::= "pushMode(<arg>)"

```

```

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

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

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText()! : \"\""
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getChannel() : 0)"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText()!) : 0)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\") : \"\""
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\") : \"\""
RulePropertyRef_text(r)
::= "<ctx(r)>.<r.label> != nil ? try _input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\""
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r) ::= "_localctx.stop"
ThisRulePropertyRef_text(r) ::= "(try _input.getText(_localctx.start, try _input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
"(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "<t.name>: <SwiftTypeMap.(TokenLabelType)>!"
TokenTypeDecl(t) ::= "var <t.name>: Int = 0"
TokenListDecl(t) ::= "<t.name>: [Token] = [Token]()"
RuleContextDecl(r)

```



```

::= "<r.name>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.name>: [<rdecl.ctxName>] = [<rdecl.ctxName>]()"

ContextTokenGetterDecl(t) ::= <<
<accessLevelOpenOK(parser)>
func <t.name>() -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.name>.rawValue, 0)
}
>>

ContextTokenListGetterDecl(t) ::= <<
<accessLevelOpenOK(parser)>
func <t.name>() -> [TerminalNode] {
  return getTokens(<parser.name>.Tokens.<t.name>.rawValue)
}
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
<accessLevelOpenOK(parser)>
func <t.name>(_ i: Int) -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.name>.rawValue, i)
}
>>

ContextRuleGetterDecl(r) ::= <<
<accessLevelOpenOK(parser)>
func <r.name>() -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, 0)
}
>>

ContextRuleListGetterDecl(r) ::= <<
<accessLevelOpenOK(parser)>
func <r.name>() -> [<r.ctxName>] {
  return getRuleContexts(<r.ctxName>.self)
}
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
<accessLevelOpenOK(parser)>
func
<r.name>(_ i: Int) -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, i)
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

```

```
ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
```

```
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
```

```
ImplicitSetLabel(id) ::= "_tset<id>"
```

```
ListLabelName(label) ::= "<label>"
```

```
CaptureNextToken(d) ::= "<d.varName> = try _input.LT(1)"
```

```
CaptureNextTokenType(d) ::= "<d.varName> = try _input.LA(1)"
```

```
StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers,  
superClass={ParserRuleContext}) ::= <<
```

```
<accessLevelNotOpen(parser)> class <struct.name>:
```

```
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces>  
separator=", "><endif> {
```

```
<attrs:{ a | <accessLevelOpenOK(parser)> var <a>}; separator="\n">
```

```
<getters:{ g | <g>}; separator="\n">
```

```
<!
```

```
<if(ctorAttrs)> <accessLevelNotOpen(parser)> init(_ parent: ParserRuleContext,_ invokingState: Int) {  
super.init(parent, invokingState) }<endif> !>
```

```
<if(ctorAttrs)>
```

```
<accessLevelNotOpen(parser)> convenience init(_ parent: ParserRuleContext?, _ invokingState: Int<ctorAttrs:{ a |,  
_ <a>}>) {
```

```
self.init(parent, invokingState)
```

```
<struct.ctorAttrs:{ a | self.<a.name> = <a.name>;}; separator="\n">
```

```
}
```

```
<endif>
```

```
override <accessLevelOpenOK(parser)>
```

```
func getRuleIndex() -> Int {
```

```
return <parser.name>.RULE_<struct.derivedFromName>
```

```
}
```

```
<if(struct.provideCopyFrom && struct.attrs)> <! don't need copy unless we have subclasses !>
```

```
<accessLevelOpenOK(parser)>
```

```
override func copyFrom(_ ctx_: ParserRuleContext) {
```

```
super.copyFrom(ctx_)
```

```
let ctx = ctx_ as! <struct.name>
```

```
<struct.attrs:{ a | self.<a.name> = ctx.<a.name>;}; separator="\n">
```

```
}
```

```
<endif>
```

```
<dispatchMethods; separator="\n">
```

```
<extensionMembers; separator="\n">
```

```
}
```

```
>>
```

```
AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
```

```
<accessLevelNotOpen(parser)>
```

```
class <struct.name>: <currentRule.name; format="cap">Context {
```

```
<attrs:{ a | <accessLevelNotOpen(parser)> var <a>}; separator="\n">
```

```
<getters:{g | <g>}; separator="\n">
```

```
<accessLevelNotOpen(parser)>  
init(_ ctx: <currentRule.name; format="cap">Context) {  
  super.init()  
  copyFrom(ctx)  
}  
<dispatchMethods; separator="\n">  
}  
>>
```

```
ListenerDispatchMethod(method) ::= <<  
  override <accessLevelOpenOK(parser)>  
  func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {  
    if let listener = listener as? <parser.grammarName>Listener {  
      listener.<if(method.isEnter)>enter<else>exit<endif><<struct.derivedFromName; format="cap">(self)  
    }  
  }  
>>
```

```
VisitorDispatchMethod(method) ::= <<  
  override <accessLevelOpenOK(parser)>  
  func accept<T>(<T>(_ visitor: ParseTreeVisitor<T>) -> T? {  
    if let visitor = visitor as? <parser.grammarName>Visitor {  
      return visitor.visit<struct.derivedFromName; format="cap">(self)  
    }  
    else if let visitor = visitor as? <parser.grammarName>BaseVisitor  
    {  
      return visitor.visit<struct.derivedFromName; format="cap">(self)  
    }  
    else {  
      return visitor.visitChildren(self)  
    }  
  }  
>>
```

```
AttributeDecl(d) ::= "<d.name>: <SwiftTypeMap.(d.type)><if(d.initValue)> = <d.initValue><else>!<endif>"
```

```
/** If we don't know location of label def x, use this template (_localctx as! <x.ctx.name> */  
labelref(x) ::= "<if(!x.isLocal)>_localctx.castdown(<x.ctx.name>.self).<endif><x.name>"
```

```
/** For any action chunk, what is correctly-typed context struct ptr? */  
ctx(actionChunk) ::= "_localctx.castdown(<actionChunk.ctx.name>.self)"
```

```
// used for left-recursive rules  
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(_ctx, <opPrec>)"  
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>"  
recRuleSetStopToken() ::= "_ctx!.stop = try _input.LT(-1)"
```

```

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
  _localctx = <ctxName>Context(_parentctx, _parentState);
  <if(label)>
  <if(isListLabel)>
    _localctx.<label>.append(_prevctx)
  <else>
    _localctx.<label>
    = _prevctx
  <endif>
  <endif>
  <if(label)>_localctx.<label> = _prevctx;<endif>
  try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
  >>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
  _localctx = <currentAltLabel; format="cap">Context( <ruleName; format="cap">Context(_parentctx,
  _parentState))
  <if(label)>
  <if(isListLabel)>
    (_localctx as! <currentAltLabel; format="cap">Context).<label>.append(_prevctx)
  <else>
    (_localctx as! <currentAltLabel; format="cap">Context).<label> = _prevctx
  <endif>
  <endif>
  try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
  >>

recRuleReplaceContext(ctxName) ::= <<
  _localctx = <ctxName>Context(_localctx)
  _ctx = _localctx
  _prevctx = _localctx
  >>

recRuleSetPrevCtx() ::= <<
  if _parseListeners != nil {
    try triggerExitRuleEvent()
  }
  _prevctx = _localctx
  >>

LexerFile(lexerFile, lexer, namedActions) ::= <<
  <fileHeader(lexerFile.grammarFileName,
  lexerFile.ANTLRVersion)>
  <if(lexerFile.genPackage)>
  <!package <lexerFile.genPackage>;!>
  <endif>

```

```

<namedActions.header>
import Antlr4

<lexer>
>>
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<accessLevelOpenOK(lexer)> class <lexer.name>: <superClass; null="Lexer"> {

internal static var _decisionToDFA: [DFA] = {
    var decisionToDFA = [DFA]()
    let length = <lexer.name>._ATN.getNumberOfDecisions()
    for i in 0..<<length {
        <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i!), i);!>
        decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i!), i))
    }
    return decisionToDFA
}()

internal static let _sharedContextCache = PredictionContextCache()

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

<if(lexer.channels)>
<accessLevelNotOpen(lexer)>
static let <lexer.channels>:{k | <k>=<lexer.channels.(k)>};
separator=", ", wrap, anchor>
<endif>
<if(rest(lexer.modes))>
<accessLevelNotOpen(lexer)>
static let <rest(lexer.modes)>:{m | <m>=<i>}; separator=", ", wrap, anchor>
<endif>
<accessLevelNotOpen(lexer)>
static let channelNames: [String] = [
    "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{c | "<c>"}; separator=", ",
wrap, anchor><endif>
]

<accessLevelNotOpen(lexer)>
static let modeNames: [String] = [
    <lexer.modes:{m | "<m>"}; separator=", ", wrap, anchor>
]

<accessLevelNotOpen(lexer)>
static let ruleNames: [String] = [
    <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
]

```

]

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

```
<namedActions.members>
```

```
override <accessLevelOpenOK(lexer)>  
func getVocabulary() -> Vocabulary {  
    return <lexer.name>.VOCABULARY  
}
```

```
<accessLevelNotOpen(lexer)>  
required init(_ input: CharStream) {  
    RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>",  
RuntimeMetaData.VERSION)  
    super.init(input)  
    _interp = LexerATNSimulator(self, <lexer.name>._ATN, <lexer.name>._decisionToDFA,  
<lexer.name>._sharedContextCache)  
}
```

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

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

```
override <accessLevelOpenOK(lexer)>  
func getSerializedATN() -> String { return <lexer.name>._serializedATN }
```

```
override <accessLevelOpenOK(lexer)>  
func getChannelNames() -> [String] { return <lexer.name>.channelNames }
```

```
override <accessLevelOpenOK(lexer)>  
func getModeNames() -> [String] { return <lexer.name>.modeNames }
```

```
override <accessLevelOpenOK(lexer)>  
func getATN() -> ATN { return <lexer.name>._ATN }
```

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

```
<accessLevelNotOpen(lexer)>  
static let _serializedATN: String = <lexer.name>ATN().jsonString
```

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

```
let _ATN: ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
```

```
>>

/** Don't need to define anything. The tool generates a XParserATN.swift file (and same for lexer)
 * which is referenced from static field _serializedATN. This json string is passed to
 * deserializeFromJson(). Note this is not the "serialization as array of ints" that other targets
 * do. It is more or less the output of ATNPrinter which gets read back in.
 */
```

```
SerializedATN(model) ::= <<
>>
```

```
/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
```

```
initValue(typeName) ::= <<
<SwiftTypeInitMap.(typeName)>
>>
```

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

Found in path(s):

```
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg
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\* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT  
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\* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY  
\* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT  
\* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF  
\* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.  
\*/

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

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

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

\*

\* REQUIRED.

\*/

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

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

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

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

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

```
from __future__ import print_function
```

```
from antlr4 import *
```

```
from io import StringIO
```

```
import sys
```

```
<namedActions.header>
```

```
<parser>
```

```
>>
```

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

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

```
from antlr4 import *
```

```
<header>
```

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



```

class <file.grammarName>Listener(ParseTreeListener):

    <file.listenerNames:{ lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx):
    pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx):
    pass

}; separator="\n">

>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
file.ANTLRVersion)>
from antlr4 import *
<header>

```

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

```

class <file.grammarName>Visitor(ParseTreeVisitor):

    <file.visitorNames:{ lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx):
    return self.visitChildren(ctx)

}; separator="\n">

>>

```

```

fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

```

```

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

```

```

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from .<superClass> import <superClass>

```

```

else:
    from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

    grammarFileName = "<parser.grammarFileName>"

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

    sharedContextCache = PredictionContextCache()

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

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

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

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

    EOF = <TokenLabelType().EOF

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

    <parser:(ctor())>

    <namedActions.members>

    <funcs; separator="\n">

    <if(semanticPredFuncs)>
    def semanticPred(self, localctx, ruleIndex, predIndex):
        if self._predicates == None:
            self._predicates = dict()
    <parser.semanticPredFuncs.values:{ f
    |
        self._predicates[<f.ruleIndex>] = self.<f.name>_semanticPred }; separator="\n "
        pred = self._predicates.get(ruleIndex, None)
        if pred is None:
            raise Exception("No predicate with index:" + str(ruleIndex))
    </if>

```

```

else:
    return pred(localctx, predIndex)

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

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
    if self._actions is None:
        actions = dict()
<recog.actionFuncs.values:{f|
    actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
    self._actions = actions
    action = self._actions.get(ruleIndex, None)
    if action is not None:
        action(localctx, actionIndex)
    else:
        raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
    if self._predicates is None:
        preds = dict()
<recog.sempredFuncs.values:{f|
    preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
    self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

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

>>

parser_ctor(p) ::= <<
def __init__(self, input, output=sys.stdout):
    super(<parser.name>, self).__init__(input, output=output)
    self.checkVersion("<file.ANTLRVersion>")

```

```

self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx , actionIndex):
<actions:{index|
<if(first(actions))>
    if actionIndex == <index>:
        <actions.(index)>
<elseif(rest(actions))>
    elif actionIndex == <index>:
        <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx, predIndex):
    <actions:{index|
<if(first(actions))>
    if predIndex == <index>:
        return <actions.(index)>
<elseif(rest(actions))>
    elif predIndex == <index>:
        return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

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

def <currentRule.name>(self<currentRule.args:{a | , <a.name>}>):

    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>))

```

```

self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
<namedActions.init>
<locals; separator="\n">
try:
  <code>
  <postamble; separator="\n">
  <namedActions.after>
<if(exceptions)>
<exceptions; separator="\n">
<else>
except RecognitionException as re:
  localctx.exception = re
  self._errHandler.reportError(self, re)
  self._errHandler.recover(self, re)
<endif>
finally:
  <finallyAction>
  self.exitRule()
return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::=
<<

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

def <currentRule.name>(self, _p=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
  _prevctx
= localctx
  _startState = <currentRule.startState>
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  try:
    <code>
    <postamble; separator="\n">
    <namedActions.after>
  except RecognitionException as re:
    localctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)
  finally:

```

```

    <finallyAction>
    self.unrollRecursionContexts(_parentctx)
    return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals,
preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    pass}; separator="\n1">
else:
    <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    pass}; separator="\n1">
else:
    pass
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)

```

```

<preamble; separator="\n">
if <expr>:
    <alts; separator="\n">

<!else if ( !(<followExpr> ) <error!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble,
iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
    <alts; separator="\n">
    self.state = <choice.loopBackStateNumber>
    self._errHandler.sync(self)
    <iteration>

>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
    <alts; separator="\n">
    self.state = <choice.stateNumber> <! loopback/exit decision !>
    self._errHandler.sync(self)
    <iteration>
    if not (<loopExpr>):
        break

>>

```

```

// LL(*) stuff

```

```

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i>:
    <alt>
    pass
}; separator="\n1">

```

>>

```
OptionalBlock(choice,
  alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
```

>>

```
StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
    <iteration>
    <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
```

>>

```
PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt>
and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{ alt |
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
    <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
```

>>

```
Sync(s) ::= "sync(<s.expecting.name>)"
```



```

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes))>><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})>
and ((1 \<< <offsetShiftVar(s.varName, bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype,
bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>}; separator=" or ">
%>

cases(ttypes) ::= <<
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{1 | <labelref(l)> =
}><endif>self.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChu
nks>)
>>

```

```

MatchToken(m)
 ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><else> <endif>self._errHandler.recoverInline(self)
else:
  self._errHandler.reportMatch(self)
  self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
  from antlr4.error.Errors import FailedPredicateException
  raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
except <catchArg>:
  <catchAction>
>>

// lexer actions are not associated with model objects

```

```

LexerSkipCommand() ::= "skip()"
LexerMoreCommand() ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar) ::= "_type = <arg>"
LexerChannelCommand(arg, grammar) ::= "_channel = <arg>"
LexerModeCommand(arg, grammar) ::= "_mode = <arg>"
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t)
  ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

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

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)
  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "self._input.getText(localctx.start, self._input.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "self.getInvokingContext(<s.ruleIndex>).<s.name>"

```

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

```
AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"
```

```
TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
```

```
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenType()> type"
```

```
TokenListDecl(t)
```

```
 ::= "self.<t.name> = list() # of <TokenLabelType()>s"
```

```
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
```

```
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"
```

```
ContextTokenGetterDecl(t) ::= <<
```

```
def <t.name>(self):
```

```
    return self.getToken(<parser.name>.<t.name>, 0)
```

```
>>
```

```
// should never be called
```

```
ContextTokenListGetterDecl(t) ::= <<
```

```
def <t.name>_list(self):
```

```
    return self.getTokens(<parser.name>.<t.name>)
```

```
>>
```

```
ContextTokenListIndexedGetterDecl(t) ::= <<
```

```
def <t.name>(self, i=None):
```

```
    if i is None:
```

```
        return self.getTokens(<parser.name>.<t.name>)
```

```
    else:
```

```
        return self.getToken(<parser.name>.<t.name>, i)
```

```
>>
```

```
ContextRuleGetterDecl(r) ::= <<
```

```
def <r.name>(self):
```

```
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)
```

```
>>
```

```
// should never be called
```

```
ContextRuleListGetterDecl(r) ::= <<
```

```
def <r.name>_list(self):
```

```
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
```

```
>>
```

```
ContextRuleListIndexedGetterDecl(r)
```

```
 ::= <<
```

```
def <r.name>(self, i=None):
```

```
    if i is None:
```

```
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
```

```

else:
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

    def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.name>=None}>):
        super(<parser.name>.<struct.name>,
self).__init__(parent, invokingState)
        self.parser = parser
        <attrs:{a | <a>}; separator="\n">
        <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n">

        <getters:{g | <g>}; separator="\n\n">

    def getRuleIndex(self):
        return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
    def copyFrom(self, ctx):
        super(<parser.name>.<struct.name>, self).copyFrom(ctx)
        <struct.attrs:{a | self.<a.name> = ctx.<a.name>}; separator="\n">

<endif>
    <dispatchMethods; separator="\n">
    <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name>; format="cap">Context):

```

```

def __init__(self, parser, ctx): # actually a <parser.name>.<currentRule.name; format="cap">Context)
    super(<parser.name>.<struct.name>, self).__init__(parser)
    <attrs:{ a | <a>}; separator="\n">
    self.copyFrom(ctx)

<getters:{ g | <g>}; separator="\n">

<dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener):
    if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">"):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor):
    if hasattr(visitor, "visit<struct.derivedFromName; format="cap">"):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
    else:
        return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk)
::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)

>>

```

```

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

```

```

recRuleReplaceContext(ctxName) ::= <<
localctx
= <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

```

```

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
    self.triggerExitRuleEvent()
_prevctx = localctx
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO
import sys

<namedActions.header>

<lexer>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from .<superClass> import <superClass>
else:
    from <superClass> import <superClass>

```

```

<endif>

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.channels)>
    <lexer.channels:{c| <c> = <lexer.channels.(c)>};
    separator="\n">

<endif>
<if(rest(lexer.modes)>
    <rest(lexer.modes):{m| <m> = <i>}; separator="\n">

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

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

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

    literalNames = [ u"\<INVALID>",
        <lexer.literalNames:{t| u<t>}; separator=", ", wrap, anchor> ]

    symbolicNames = [ u"\<INVALID>",
        <lexer.symbolicNames:{t| u<t>}; separator=", ", wrap, anchor> ]

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

    grammarFileName = u"<lexer.grammarFileName>"

    def __init__(self, input=None, output=sys.stdout):
        super(<lexer.name>, self).__init__(input, output=output)
        self.checkVersion("<lexerFile.ANTLRVersion>")
        self._interp
    = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
        self._actions = None
        self._predicates = None

    <namedActions.members>

```



```

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

>>

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

def serializedATN():
    with StringIO() as buf:
        buf.write(u"<model.serialized; wrap={ }<\n>    buf.write(u"}>")
        return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<pythonTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"

Found in path(s):
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
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*/

```

```

/** How to generate rules derived from left-recursive rules.
* These rely on recRuleAltPredicate(),
* recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
* templates in main language.stg
*/

```

```

group LeftRecursiveRules;

```

```

recRule(ruleName, argName, primaryAlts, opAlts, setResultAction,
        userRetvals, leftRecursiveRuleRefLabels) ::=

```

```

<<
<ruleName><if(userRetvals)>
returns [<userRetvals>]<endif>
: ( { } <primaryAlts: { alt | <alt.altText> }; separator="\n | ">
)
(
<opAlts; separator="\n | ">
)*
;
>>

```

```

recRuleAlt(alt, precOption, opPrec, pred) ::= <<
{<pred>}?<<precOption>=<opPrec>> <alt.altText>
>>

```

Found in path(s):

```

* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
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*/

```

```

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

```

```

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

```

Found in path(s):

```

* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/tool/templates/depend.stg

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*/

```

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

```
tree grammar LeftRecursiveRuleWalker;
```

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

```

```
@header {
package org.antlr.v4.parse;
```

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

```

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

```

```
public void setAltAssoc(AltAST altTree, int alt) {}

```

```
public void binaryAlt(AltAST altTree, int alt) {}

```

```

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

@rulecatch { }

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

exceptionGroup
: exceptionHandler* finallyClause?
;

exceptionHandler
: ^ (CATCH ARG_ACTION ACTION)
;

finallyClause
: ^ (FINALLY ACTION)
;

ruleModifier
: PUBLIC
| PRIVATE
| PROTECTED
;

ruleBlock returns [boolean isLeftRec]

```

```

@init{boolean lr=false; this.numAlts = $start.getChildCount();}
: ^( BLOCK
  (
    o=outerAlternative
    {if ($o.isLeftRec) $isLeftRec = true;}
    {currentOuterAltNumber++;}
  )+
)
;

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

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

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

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

nonLeftRecur
: ^(ALT elementOptions? element+)
;

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

```

;

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

token returns [GrammarAST t=null]

: ^(ASSIGN ID s=token {\$t = \$s.t;})  
| ^(PLUS\_ASSIGN ID s=token {\$t = \$s.t;})  
| b=STRING\_LITERAL {\$t = \$b;}  
| ^(b=STRING\_LITERAL elementOptions) {\$t = \$b;}  
| ^(c=TOKEN\_REF elementOptions) {\$t = \$c;}  
| c=TOKEN\_REF {\$t = \$c;}  
;

elementOptions

: ^(ELEMENT\_OPTIONS elementOption\*)

;

elementOption

: ID  
| ^(ASSIGN ID ID)  
| ^(ASSIGN ID STRING\_LITERAL)  
| ^(ASSIGN ID ACTION)  
| ^(ASSIGN ID INT)  
;

element

: atom  
| ^(NOT element)  
| ^(RANGE atom atom)  
| ^(ASSIGN ID element)  
| ^(PLUS\_ASSIGN ID element)  
| ^(SET setElement+)  
| RULE\_REF  
| ebnf  
| epsilonElement  
;

epsilonElement

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

setElement

: ^(STRING\_LITERAL elementOptions)

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

ebnf: block

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

block

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

alternative

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

atom

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

Found in path(s):

\*

/opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g

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```

```

phpTypeInitMap ::= [
  "int": "0",
  "long": "0",
  "float": "0.0",
  "double": "0.0",
  "boolean": "false",
  default: "null"
]

```

```

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

```

```

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

```

```

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr4\Runtime\Tree\ParseTreeListener;

```

```

/**
* This interface defines a complete listener for a parse tree produced by
* { @see <file.parserName> }.
*/

```

```

interface <file.grammarName>Listener extends ParseTreeListener {
    <file.listenerNames: {lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the `<lname>`
* labeled alternative in { @see <file.parserName>::<file.listenerLabelRuleNames.(lname)>() }.
<else>
* Enter a parse tree produced by { @see <file.parserName>::<lname>() }.
<endif>
* @param $context The parse tree.
*/
public function enter<lname; format="cap">(Context\\<lname; format="cap">Context $context) : void;
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the `<lname>` labeled alternative
* in { @see <file.parserName>::<file.listenerLabelRuleNames.(lname)>() }.
<else>
* Exit a parse
tree produced by { @see <file.parserName>::<lname>() }.
<endif>
* @param $context The parse tree.
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context) : void;
separator="\n">
}
>>

```

```

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>

```

```

use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
use Antlr\\Antlr4\\Runtime\\Tree\\ErrorNode;
use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;

/**
* This class provides an empty implementation of { @see <file.grammarName>Listener },
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseListener implements <file.grammarName>Listener
{
    <file.listenerNames: {lname |
/**
* { @inheritdoc }

```

```

*
* The default implementation does nothing.
*/
public function enter<lname; format="cap">(Context\<lname; format="cap">Context
$context) : void {}

/**
* {@inheritdoc}
*
* The default implementation does nothing.
*/
public function exit<lname; format="cap">(Context\<lname; format="cap">Context $context) : void {}};
separator="\n">

/**
* {@inheritdoc}
*
* The default implementation does nothing.
*/
public function enterEveryRule(ParserRuleContext $context) : void {}

/**
* {@inheritdoc}
*
* The default implementation does nothing.
*/
public function exitEveryRule(ParserRuleContext $context) : void {}

/**
* {@inheritdoc}
*
* The default implementation does nothing.
*/
public function visitTerminal(TerminalNode $node) : void {}

/**
* {@inheritdoc}
*
* The default implementation does nothing.
*/
public function visitErrorNode(ErrorNode $node) : void {}
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;

```

```

<endif>

<header>
use Antlr\Antlr4\Runtime\Tree\ParseTreeVisitor;

/**
 * This interface defines a complete generic visitor for a parse tree produced by { @see <file.parserName>}.
 */
interface <file.grammarName>Visitor extends ParseTreeVisitor
{
  <file.visitorNames:{ lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
 * Visit a parse tree produced by the `<lname>` labeled alternative
 * in { @see <file.parserName>::<file.visitorLabelRuleNames.(lname)>()}.
<else>
 * Visit a parse tree produced by { @see <file.parserName>::<lname>()}.
<endif>
 *
 * @param Context\<lname; format="cap">Context $context The parse tree.
 *
 * @return mixed The visitor result.
 */
public function visit<lname; format="cap">(Context\<lname; format="cap">Context $context);};
separator="\n\n"
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\Antlr4\Runtime\Tree\AbstractParseTreeVisitor;

/**
 * This class provides
 an empty implementation of { @see <file.grammarName>Visitor},
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.
 */
class <file.grammarName>BaseVisitor extends AbstractParseTreeVisitor implements <file.grammarName>Visitor
{
  <file.visitorNames:{ lname |
/**
 * { @inheritdoc}
 *

```

```

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

```

```

fileHeader(grammarFileName, ANTLRVersion) ::= <<
\<?php

/*
* Generated from <grammarFileName> by ANTLR <ANTLRVersion>
*/

>>
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

```

```

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
namespace<if(file.genPackage)> <file.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
use
Antlr\Antlr4\Runtime\Atn\ATN;
use Antlr\Antlr4\Runtime\Atn\ATNDeserializer;
use Antlr\Antlr4\Runtime\Atn\ParserATNSimulator;
use Antlr\Antlr4\Runtime\Dfa\DFA;
use Antlr\Antlr4\Runtime\Error\Exceptions\FailedPredicateException;
use Antlr\Antlr4\Runtime\Error\Exceptions\NoViableAltException;
use Antlr\Antlr4\Runtime\PredictionContexts\PredictionContextCache;
use Antlr\Antlr4\Runtime\Error\Exceptions\RecognitionException;
use Antlr\Antlr4\Runtime\RuleContext;
use Antlr\Antlr4\Runtime\Token;
use Antlr\Antlr4\Runtime\TokenStream;
use Antlr\Antlr4\Runtime\Vocabulary;
use Antlr\Antlr4\Runtime\VocabularyImpl;
use Antlr\Antlr4\Runtime\RuntimeMetaData;
use Antlr\Antlr4\Runtime\Parser;
<if(namedActions.definitions)><namedActions.definitions><endif>

final class <parser.name> extends <superClass; null="Parser">
{
<if(parser.tokens)>
public const <parser.tokens>:{k | <k> = <parser.tokens.(k)>}; separator="

```

```

", wrap, anchor>;
<endif>

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

/**
 * @var array<string>
 */
public const RULE_NAMES = [
<parser.ruleNames:{r | '<r>'}>; separator=", ", wrap, anchor>
];

<vocabulary(parser.literalNames, parser.symbolicNames)>

<atn>
protected static $atn;
protected static $decisionToDFA;
protected static $sharedContextCache;
<if(namedActions.members)>

<namedActions.members>
<endif>

<parser:(ctor)()>

private static function initialize() : void
{
if (self::$atn !== null) {
return;
}

RuntimeMetaData::checkVersion('<file.ANTLRVersion>', RuntimeMetaData::VERSION);

$atn = (new ATNDeserializer()->deserialize(self::SERIALIZED_ATN);

$decisionToDFA = [];
for ($i = 0, $count = $atn->getNumberOfDecisions(); $i < $count; $i++) {
$decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
}

self::$atn = $atn;
self::$decisionToDFA
= $decisionToDFA;
self::$sharedContextCache = new PredictionContextCache();
}

```

```

public function getGrammarFileName() : string
{
    return "<parser.grammarFileName>";
}

public function getRuleNames() : array
{
    return self::RULE_NAMES;
}

public function getSerializedATN() : string
{
    return self::SERIALIZED_ATN;
}

public function getATN() : ATN
{
    return self::$atn;
}

public function getVocabulary() : Vocabulary
{
    static $vocabulary;

    return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
}
<if(funcs)>

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

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

        default:
            return
true;
    }
}

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

```

```

}
}

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

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

<func.altLabelCtxs:{1 | <func.altLabelCtxs.(1)>}; separator="\n\n"><endif> }; separator="\n\n">
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
/**
 * @var array<string|null>
 */
private const LITERAL_NAMES = [
    <literalNames:{t
    | <t>; null="null", separator=" ", wrap, anchor>
];

/**
 * @var array<string>
 */
private const SYMBOLIC_NAMES = [
    <symbolicNames:{t | <t>; null="null", separator=" ", wrap, anchor>
];
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>

public function action(?RuleContext $localContext, int $ruleIndex, int $actionIndex) : void
{
    switch ($ruleIndex) {
        <recog.actionFuncs.values:{f}
        case <f.ruleIndex>:
            $this->action<f.name; format="cap">($localContext, $actionIndex);
            break;}; separator="\n\n">
    }
}

```



```

}

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>

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

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

parser_ctor(p) ::= <<
public
function __construct(TokenStream $input)
{
parent::__construct($input);

self::initialize();

$this->interp = new ParserATNSimulator($this, self::$satn, self::$decisionToDFA, self::$sharedContextCache);
}
>>

/**
 * This generates a private method since the actionIndex is generated, making
 * an overriding implementation impossible to maintain.
 */
RuleActionFunction(r, actions) ::= <<
private function action<r.name; format="cap">(?<r.ctxType> $localContext, int $actionIndex) : void
{
switch ($actionIndex) {
<actions:{index|
case <index>:
<actions.(index)>

break;}; separator="\n\n">
}
}
>>

```

```

/**
 * This generates a private method since the predicateIndex is generated, making
 * an overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
private function sempred<r.name; format="cap">(Context\<r.ctxType> $localContext, int $predicateIndex) : bool
{
  switch ($predicateIndex) {
  <actions:{index|
    case <index>:
      return <actions.(index)>;};
  separator="\n\n">
  }

  return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,exceptions,postamble)
::= <<
/**
 * @throws RecognitionException
 */
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>( <args;
separator=", ">) : Context\<currentRule.ctxType>
{
  $localContext = new Context\<currentRule.ctxType>($this->ctx, $this->getState())<currentRule.args:{a | ,
$a.name}>>);

  $this->enterRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n\n">

  try {
    <code>
    <postamble; separator="\n\n">
    <namedActions.after>
  }<if(exceptions)><exceptions; separator="\n\n"><else> catch (RecognitionException $exception) {
    $localContext->exception = $exception;
    $this->errorHandler->reportError($this, $exception);
    $this->errorHandler->recover($this, $exception);

  }<endif> finally {
    <finallyAction>
    $this->exitRule();
  }
}

```

```

    return $localContext;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble) ::= <<
/**
 * @throws RecognitionException
 */
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=", ">) : Context\<currentRule.ctxType>
{
    return $this->recursive<currentRule.name; format="cap">(0<currentRule.args:{a | , <a.name>}>>);
}

/**
 * @throws RecognitionException
 */
private function recursive<currentRule.name; format="cap">(int $precedence<args:{a | , <a>}>) :
Context\<currentRule.ctxType>
{
    $parentContext = $this->ctx;
    $parentState = $this->getState();
    $localContext = new Context\<currentRule.ctxType>($this->ctx, $parentState<currentRule.args:{a | ,
<a.name>}>);
    $previousContext = $localContext;
    $startState = <currentRule.startState>;
    $this->enterRecursionRule($localContext, <currentRule.startState>,
self::RULE_<currentRule.name>, $precedence);
    <namedActions.init>
    <locals; separator="\n">

    try {
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    } catch (RecognitionException $exception) {
        $localContext->exception = $exception;
        $this->errorHandler->reportError($this, $exception);
        $this->errorHandler->recover($this, $exception);
    } finally {
        <finallyAction>
        $this->unrollRecursionContexts($parentContext);
    }

    return $localContext;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>$localContext = new
Context\|<currentOuterMostAltCodeBlock.altLabel; format="cap">Context($localContext);<endif>
$this->enterOuterAlt($localContext, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops;
separator="\n">
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

```

```

switch ($this->input->LA(1)) {
  <choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n\n">

```

```

default:
  <error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->input->LA(1)) {
  <choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n\n">

```

```

default:
  break;
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

```

```
<preamble; separator="\n">
```

```
if (<expr>) {  
  <alts; separator="\n">  
}  
>>
```

```
LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<  
$this->setState(<choice.stateNumber>);  
$this->errorHandler->sync($this);
```

```
<preamble;  
separator="\n">  
while (<loopExpr>) {  
  <alts; separator="\n">  
  $this->setState(<choice.loopBackStateNumber>);  
  $this->errorHandler->sync($this);  
  <iteration>  
}  
>>
```

```
LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<  
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>  
$this->errorHandler->sync($this);
```

```
<preamble; separator="\n">  
do {  
  <alts; separator="\n">  
  $this->setState(<choice.stateNumber>); <! loopback/exit decision !>  
  $this->errorHandler->sync($this);  
  <iteration>  
} while (<loopExpr>);  
>>
```

```
// LL(*) stuff
```

```
AltBlock(choice, preamble, alts, error) ::= <<  
$this->setState(<choice.stateNumber>);  
$this->errorHandler->sync($this);  
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>  
<preamble; separator="\n">
```

```
switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {  
  <alts:{ alt |  
case <i>:  
  <alt>  
break;}; separator="\n\n">  
}
```

>>

```
OptionalBlock(choice,  
alts, error) ::= <<
```

```
$this->setState(<choice.stateNumber>);  
$this->errorHandler->sync($this);
```

```
switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {  
<alts:{ alt |  
  case <i><if(!choice.ast.greedy)>+1<endif>:  
  <alt>  
  break;}; separator="\n\n">  
}  
>>
```

```
StarBlock(choice, alts, sync, iteration) ::= <<  
$this->setState(<choice.stateNumber>);  
$this->errorHandler->sync($this);
```

```
$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
```

```
while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER) {  
  if ($alt === 1<if(!choice.ast.greedy)>+1<endif>) {  
    <iteration>  
    <alts> <! should only be one !>  
  }  
}
```

```
$this->setState(<choice.loopBackStateNumber>);  
$this->errorHandler->sync($this);
```

```
$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);  
}  
>>
```

```
PlusBlock(choice, alts, error) ::= <<  
$this->setState(<choice.blockStartStateNumber>); <! alt block  
decision !>  
$this->errorHandler->sync($this);
```

```
$alt = 1<if(!choice.ast.greedy)>+1<endif>;
```

```
do {  
  switch ($alt) {  
    <alts:{ alt |  
  case <i><if(!choice.ast.greedy)>+1<endif>:  
  <alt>  
  break;}; separator="\n\n">  
  default:
```

```

<error>
}

$this->setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
$this->errorHandler->sync($this);

$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
} while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER);
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException($this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>} ; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) === 0
>>

// produces smaller bytecode
only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>}) && ((1 <|< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 <|< <offsetShiftConst(ttype, bits.shift)>)}; separator=" | ">)) !== 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>($<shiftAmount> - <offset>)<else>$<shiftAmount><endif>
%>
offsetShiftConst(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(self::<shiftAmount> - <offset>)<else>self::<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | $<s.varName> === self::<ttype>} ; separator=" || ">
%>

```

```

cases(ttypes) ::= <<
<types:{ t | case self::<t>}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
$this->setState(<r.stateNumber>);
<if(r.labels)><r.labels:{1 | <labelref(l)> =
}><endif>$this-><if(r.ast.options.p)>recursive<r.name>;
format="cap"><else><r.name><endif><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif>
<argExprsChunks>;
>>

MatchToken(m) ::= <<
$this->setState(<m.stateNumber>);
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>$this->match(self::<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
$this->setState(<m.stateNumber>);

<if(m.labels)><m.labels:{1 | <labelref(l)> = }>$this->input->LT(1);<endif>
<capture>

if (<if(invert)>$<m.varName> \<= 0 || <else>!<endif><(expr)>) {
    <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>$this->errorHandler->recoverInline($this);
} else {
    if ($this->input->LA(1) === Token::EOF) {
        $this->matchedEOF = true;
    }

    $this->errorHandler->reportMatch($this);
    $this->consume();
}
>>

Wildcard(w) ::= <<
$this->setState(<w.stateNumber>);
<if(w.labels)><w.labels:{1
| <labelref(l)> = }><endif>$this->matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

```



```

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
$this->setState(<p.stateNumber>);

if (!(<chunks>)) {
    throw new FailedPredicateException($this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "$this->skip();"
LexerMoreCommand() ::= "$this->more();"
LexerPopModeCommand() ::= "$this->popMode();"

LexerTypeCommand(arg, grammar) ::= "$this->type = <arg>";
LexerChannelCommand(arg, grammar) ::= "$this->channel = <arg>";
LexerModeCommand(arg, grammar) ::= "$this->mode = <arg>";
LexerPushModeCommand(arg, grammar) ::= "$this->pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t)
    ::= "<t.st>"
ArgRef(a) ::= "$localContext-><a.name>"
LocalRef(a) ::= "$localContext-><a.name>"
RetValRef(a) ::= "$localContext-><a.name>"
QRetValRef(a) ::= "<ctx(a)>-><a.dict>-><a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>-><t.name>"
LabelRef(t) ::= "<ctx(t)>-><t.name>"
ListLabelRef(t) ::= "<ctx(t)>-><ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>-><s.name> = <rhsChunks>";

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

TokenPropertyRef_text(t) ::= "<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getText() : null"
TokenPropertyRef_type(t) ::= "<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getType() : 0"
TokenPropertyRef_line(t) ::= "<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getLine() : 0"

```

```

TokenPropertyRef_pos(t) ::= "<ctx(t)-><t.label> !== null ? <ctx(t)-><t.label>->getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "<ctx(t)-><t.label>
! == null ? <ctx(t)-><t.label>->getChannel() : 0)"
TokenPropertyRef_index(t) ::= "<ctx(t)-><t.label> !== null ? <ctx(t)-><t.label>->getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "<ctx(t)-><t.label> !== null ? (int) <ctx(t)-><t.label>->getText() : 0)"

RulePropertyRef_start(r) ::= "<ctx(r)-><r.label> !== null ? (<ctx(r)-><r.label>->start) : null)"
RulePropertyRef_stop(r) ::= "<ctx(r)-><r.label> !== null ? (<ctx(r)-><r.label>->stop) : null)"
RulePropertyRef_text(r) ::= "<ctx(r)-><r.label> !== null ? $this->input->getTextByTokens(<ctx(r)-><r.label>->start, <ctx(r)-><r.label>->stop) : null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)-><r.label>"
RulePropertyRef_parser(r) ::= "\$this"

ThisRulePropertyRef_start(r) ::= "$localContext->start"
ThisRulePropertyRef_stop(r) ::= "$localContext->stop"
ThisRulePropertyRef_text(r) ::= "$this->input->getTextByTokens($localContext->start, $this->input->LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "$localContext"
ThisRulePropertyRef_parser(r) ::=
"$this"

NonLocalAttrRef(s) ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)-><a.listName>[] = <labelref(a.label)>;"

TokenDecl(t) ::= "<TokenLabelType()> $<t.name>"
TokenTypeDecl(t) ::= ""
TokenListDecl(t) ::= "array $<t.name> = []"
RuleContextDecl(r) ::= "<r.ctxName> $<r.name>"
RuleContextListDecl(rdecl) ::= "array $<rdecl.name> = []"
AttributeDecl(d) ::= "<d.type> $<d.name><if(d.initValue)> = <d.initValue><endif>"

PropertiesDecl(struct) ::= <<
<if(struct.tokenListDecls)>
<struct.tokenListDecls : { d | /**
* @var array<Token>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.tokenDecls)>
<if(struct.tokenListDecls)>

<endif>
<struct.tokenDecls : { d | /**
* @var <TokenLabelType()>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>

```

```

<if(struct.ruleContextDecls)>
<if(struct.tokenListDecls
|| struct.tokenDecls)>

<endif>
<struct.ruleContextDecls : {d | /**
* @var <d.ctxName>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextListDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls)>

<endif>
<struct.ruleContextListDecls : {d | /**
* @var array\<<d.ctxName>\>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.attributeDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls || struct.ruleContextListDecls)>

<endif>
<struct.attributeDecls : {d | /**
* @var <d.type><if(!d.initValue)>|null<endif> $<d.name>
*/
public $<d.name><if(d.initValue)> = <d.initValue><endif>;}; separator="\n\n">
<endif>

>>

ContextTokenGetterDecl(t) ::= <<
public function <t.name>() : ?TerminalNode
{
    return $this->getToken(<parser.name>::<t.name>, 0);
}
>>

ContextTokenListGetterDecl(t) ::= <<
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
/**
* @return
array\<TerminalNode>|TerminalNode|null
*/
public function <t.name>(int $index = null)
{

```

```

if ($index === null) {
    return $this->getTokens(<parser.name>::<t.name>);
}

return $this->getToken(<parser.name>::<t.name>, $index);
}
>>

ContextRuleGetterDecl(r) ::= <<
public function <r.name>() : ?<r.ctxName>
{
    return $this->getTypedRuleContext(<r.ctxName>::class, 0);
}
>>

ContextRuleListGetterDecl(r) ::= <<
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
/**
 * @return array<<r.ctxName>>|<r.ctxName>|null
 */
public function <r.name>(int $index = null)
{
    if ($index === null) {
        return $this->getTypedRuleContexts(<r.ctxName>::class);
    }

    return $this->getTypedRuleContext(<r.ctxName>::class, $index);
}
>>

LexerRuleContext() ::= "RuleContext"

/**
 * The rule context name is the rule followed by a suffix; e.g., r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName) ::= "<ruleName>"
ImplicitSetLabel(id)
    ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "$<d.varName> = \$this->input->LT(1);"
CaptureNextTokenType(d) ::= "$<d.varName> = $this->input->LA(1);"

```

```

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif>
{
<PropertiesDecl(struct)>
public function __construct(?ParserRuleContext $parent, ?int $invokingState = null<ctorAttrs:{a | , ?<a> = null}>)
{
parent::__construct($parent, $invokingState);
<if(struct.ctorAttrs)>

<struct.ctorAttrs:{a | $this-><a.name> = $<a.name> ?? $this-><a.name>;}; separator="\n">
<endif>
}

public function getRuleIndex() : int
{
return <parser.name>::RULE_<struct.derivedFromName>;
}
<if(getters)>

<getters:{g | <g>;}; separator="\n\n">
<endif>
<if(struct.provideCopyFrom)> <! don't need
copy unless we have subclasses !>
public function copyFrom(ParserRuleContext $context) : void
{
parent::copyFrom($context);

<struct.attrs:{a | $this-><a.name> = $context-><a.name>;}; separator="\n">
}
<endif>
<if(dispatchMethods)>

<dispatchMethods; separator="\n\n">
<endif>
<if(extensionMembers)>

<extensionMembers; separator="\n\n">
<endif>
}
>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context
{
<PropertiesDecl(struct)>
public function __construct(<struct.parentRule; format="cap">Context $context)

```

```

{
    parent::__construct($context);

    $this->copyFrom($context);
}
<if(getters)>

    <getters:{g | <g>}; separator="\n\n">
<endif>
<if(dispatchMethods)>

    <dispatchMethods; separator="\n\n">
<endif>
}
>>

ListenerDispatchMethod(method) ::= <<
public function <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener $listener) : void
{
    if ($listener instanceof <parser.grammarName>Listener)
    {
        $listener-><if(method.isEnter)>enter<else>exit<endif><<struct.derivedFromName; format="cap">($this);
    }
}
>>

VisitorDispatchMethod(method) ::= <<
public function accept(ParseTreeVisitor $visitor)
{
    if ($visitor instanceof <parser.grammarName>Visitor) {
        return $visitor->visit<<struct.derivedFromName; format="cap">($this);
    }

    return $visitor->visitChildren($this);
}
>>

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>$localContext-><endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "$localContext"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "\$this->precpred(\$this->ctx, <opPrec>)"

recRuleSetReturnAction(src,name) ::= "\$<name> = \$<src>-><name>;"

```

```

recRuleSetStopToken() ::= "$this->ctx->stop = $this->input->LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
$localContext
= new Context\<ctxName>Context($parentContext, $parentState);
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
$localContext = new Context\<currentAltLabel; format="cap">Context(new Context\<ruleName;
format="cap">Context($parentContext, $parentState));
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
$localContext = new Context\<ctxName>Context($localContext);
$this->ctx = $localContext;
$previousContext = $localContext;
>>

recRuleSetPrevCtx() ::= <<
if ($this->getParseListeners() !== null) {
    $this->triggerExitRuleEvent();
}

$previousContext
= $localContext;
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>

```

<lexer>

>>

```
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
namespace<if(lexerFile.genPackage)> <lexerFile.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
use Antlr\\Antlr4\\Runtime\\Atn\\LexerATNSimulator;
use Antlr\\Antlr4\\Runtime\\Lexer;
use Antlr\\Antlr4\\Runtime\\CharStream;
use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
use Antlr\\Antlr4\\Runtime\\RuleContext;
use Antlr\\Antlr4\\Runtime\\Atn\\ATN;
use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
use Antlr\\Antlr4\\Runtime\\Vocabulary;
use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
<if(namedActions.definitions)><namedActions.definitions><endif>

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

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

<if(rest(lexer.modes))>
public const <rest(lexer.modes){m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>

/**
 * @var array<string>
 */
public const CHANNEL_NAMES = [
'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channels)>, <lexer.channels:{c| '<c>'}; separator=", ",
wrap, anchor><endif>
];

/**
 * @var array<string>
 */
public const MODE_NAMES = [
<lexer.modes:{m| '<m>'}; separator=", ", wrap, anchor>
];
```



```

/**
 * @var array<string>
 */
public const RULE_NAMES = [
    <lexer.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
];

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

<atn>
protected static $atn;
protected static $decisionToDFA;
protected static $sharedContextCache;
<if(namedActions.members)>

    <namedActions.members>
<endif>

public
function __construct(CharStream $input)
{
    parent::__construct($input);

    self::initialize();

    $this->interp = new LexerATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
}

private static function initialize() : void
{
    if (self::$atn !== null) {
        return;
    }

    RuntimeMetaData::checkVersion('<lexerFile.ANTLRVersion>', RuntimeMetaData::VERSION);

    $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

    $decisionToDFA = [];
    for ($i = 0, $count = $atn->getNumberOfDecisions(); $i < $count; $i++) {
        $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
    }

    self::$atn = $atn;
    self::$decisionToDFA = $decisionToDFA;
    self::$sharedContextCache = new PredictionContextCache();
}

```

```

public static function vocabulary() : Vocabulary
{
    static $vocabulary;

    return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES,
self::SYMBOLIC_NAMES);
}

public function getGrammarFileName() : string
{
    return '<lexer.grammarFileName>';
}

public function getRuleNames() : array
{
    return self::RULE_NAMES;
}

public function getSerializedATN() : string
{
    return self::SERIALIZED_ATN;
}

/**
 * @return array<string>
 */
public function getChannelNames() : array
{
    return self::CHANNEL_NAMES;
}

/**
 * @return array<string>
 */
public function getModeNames() : array
{
    return self::MODE_NAMES;
}

public function getATN() : ATN
{
    return self::$atn;
}

public function getVocabulary() : Vocabulary
{
    return self::vocabulary();
}

```

```

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

```

```

SerializedATN(model) ::= <<
<if(rest(model.segments))>
/**
 * @var string
 */
private const SERIALIZED_ATN =
  <model.segments:{segment| "<segment; wrap={ " .<n>" }>"}; separator=" .\n">;
<else>
/**
 * @var string
 */
private const SERIALIZED_ATN
  =
  "<model.serialized; wrap={ " .<n>  " }>";
<endif>
>>

```

```

/**
 * Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is `null`.
 */
initValue(typeName) ::= <<
<phpTypeInitMap.(typeName)>
>>

```

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

Found in path(s):

```
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/tool/templates/codegen/PHP/PHP.stg
```

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

```
/*
```

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\*/

Found in path(s):

\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.java

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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.
*/
```

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

```
* Parses trees created by ANTLRParser.g.
```

```
*
```

```
* Rather than have multiple tree grammars, one for each visit, I'm
* creating this generic visitor that knows about context. All of the
* boilerplate pattern recognition is done here. Then, subclasses can
* override the methods they care about.
```

```
This prevents a lot of the same
```

```
* context tracking stuff like "set current alternative for current
```

```
* rule node" that is repeated in lots of tree filters.
```

```
*/
```

```
tree grammar GrammarTreeVisitor;
```

```
options {
```

```
language    = Java;
```

```
tokenVocab  = ANTLRParser;
```

```
ASTLabelType = GrammarAST;
```

```
}
```

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

```
@header {
```

```
/*
```

```
[The "BSD license"]
```

```
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```

```
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```

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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);
    }
}
```

```

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

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

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

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

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

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

```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }

protected void exitMode(GrammarAST tree) { }

protected

void enterLexerRule(GrammarAST tree) { }

protected void exitLexerRule(GrammarAST tree) { }

protected void enterRule(GrammarAST tree) { }

protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }

protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }

protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }

protected void exitFinallyClause(GrammarAST tree) { }

protected void enterLocals(GrammarAST tree) { }

protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }

protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }

protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }

protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST tree) { }

protected

void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }

protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }

protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }

protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }

protected void exitOuterAlternative(AltAST tree) { }

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

```
protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }
```

```
protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }
```

```
protected void enterLabeledLexerElement(GrammarAST tree) { }
protected void exitLabeledLexerElement(GrammarAST tree) { }
```

```
protected void enterLexerBlock(GrammarAST tree) { }
protected
void exitLexerBlock(GrammarAST tree) { }
```

```
protected void enterLexerAtom(GrammarAST tree) { }
protected void exitLexerAtom(GrammarAST tree) { }
```

```
protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }
```

```
protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }
```

```
protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }
```

```
protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }
```

```
protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }
```

```
protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }
```

```
protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }
```

```
protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }
```

```
protected
void enterLexerSubrule(GrammarAST tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }
```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```
protected
```

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

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

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

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

```
@Override
```

```
public void traceIn(String ruleName, int ruleIndex) {
```

```
    System.err.println("enter "+ruleName+": "+input.LT(1));
```

```
}
```

```
@Override
```

```
public void traceOut(String ruleName, int ruleIndex) {
```

```
    System.err.println("exit "+ruleName+": "+input.LT(1));
```

```
}
```

```
}
```

```
grammarSpec
```

```
@init {
```

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

```

}
@after {
exitGrammarSpec($start);
}
: ^( GRAMMAR ID {grammarName=$ID.text;}
{discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
prequelConstructs
{finishPrequels($prequelConstructs.firstOne);}
rules mode*
{finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
)
;

```

prequelConstructs returns [GrammarAST firstOne=null]

```

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

```

prequelConstruct

```

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

```

optionsSpec

```

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

```

```

option
@init {
    enterOption($start);
    boolean rule = inContext("RULE ...");
    boolean block = inContext("BLOCK ...");
}
@after {
    exitOption($start);
}
: ^(a=ASSIGN ID v=optionValue)
{
    if ( block ) blockOption($ID, $v.start); // most specific first
    else if ( rule ) ruleOption($ID, $v.start);
    else grammarOption($ID, $v.start);
}
;

```

optionValue returns [String v]

```

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

```

delegateGrammars

```

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

```

delegateGrammar

```

@init {
    enterDelegateGrammar($start);
}
@after {
    exitDelegateGrammar($start);
}

```

```
}  
: ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}  
| id=ID {importGrammar(null, $id);}  
;
```

tokensSpec

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

tokenSpec

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

channelsSpec

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

channelSpec

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

action

```
@init {  
  enterAction($start);  
}
```

```

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

```

rules

```

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

```

mode

```

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

```

lexerRule

```

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

```

```

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

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

exceptionHandler
@init {
enterExceptionHandler($start);
}
@after {
exitExceptionHandler($start);
}
}

```



```
: ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION,  
(ActionAST)$ACTION);}
```

```
;
```

```
finallyClause
```

```
@init {
```

```
enterFinallyClause($start);
```

```
}
```

```
@after {
```

```
exitFinallyClause($start);
```

```
}
```

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

```
;
```

```
locals
```

```
@init {
```

```
enterLocals($start);
```

```
}
```

```
@after {
```

```
exitLocals($start);
```

```
}
```

```
: ^(LOCALS ARG_ACTION)
```

```
;
```

```
ruleReturns
```

```
@init {
```

```
enterRuleReturns($start);
```

```
}
```

```
@after {
```

```
exitRuleReturns($start);
```

```
}
```

```
: ^(RETURNS ARG_ACTION)
```

```
;
```

```
throwsSpec
```

```
@init {
```

```
enterThrowsSpec($start);
```

```
}
```

```
@after {
```

```
exitThrowsSpec($start);
```

```
}
```

```
: ^(THROWS ID+)
```

```
;
```

```
ruleAction
```

```
@init {
```

```
enterRuleAction($start);
```

```
}
```

```
@after {
    exitRuleAction($start);
}
: ^(AT ID ACTION)
;
```

ruleModifier

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

lexerRuleBlock

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

ruleBlock

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

```

```
    outerAlternative
  )+
)
;
```

```
lexerOuterAlternative
@init {
  enterLexerOuterAlternative((AltAST)$start);
  discoverOuterAlt((AltAST)$start);
}
@after {
  finishOuterAlt((AltAST)$start);
  exitLexerOuterAlternative((AltAST)$start);
}
: lexerAlternative
;
```

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

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

```
lexerElements
@init {
  enterLexerElements($start);
}
@after {
  exitLexerElements($start);
}
```

```

: ^(ALT lexerElement+)
;

lexerElement
@init {
enterLexerElement($start);
}
@after {
exitLexerElement($start);
}
: labeledLexerElement
| lexerAtom
| lexerSubrule
| ACTION {actionInAlt((ActionAST)$ACTION);}
| SEMPRED {sempredInAlt((PredAST)$SEMPRED);}
| ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| EPSILON
;

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

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

lexerAtom
@init {
enterLexerAtom($start);
}
@after {
exitLexerAtom($start);
}
: terminal

```

```
| ^(NOT blockSet)
| blockSet
| ^(WILDCARD elementOptions)
| WILDCARD
| LEXER_CHAR_SET
| range
| ruleref
;
```

actionElement

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

alternative

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

lexerCommand

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

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

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

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

```
labeledElement
@init {
  enterLabeledElement($start);
}
```

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

```
subrule
@init {
  enterSubrule($start);
}
@after {
  exitSubrule($start);
}
: ^(blockSuffix block)
| block
;
```

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

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

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

```

;

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

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

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

```



```

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

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

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

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

```

```

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

```

```

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

```

Found in path(s):

\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.g

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*/

```

```

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

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

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

```

```

topdown

```

```

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

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

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

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

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

setElement[boolean inLexer]
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}

```

```

: ( ^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 }?
| a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 }?
| {!inLexer}?=> ^(TOKEN_REF elementOptions)
| {!inLexer}?=> TOKEN_REF
| {!inLexer}?=> ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1
&&
  CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1 }?
)
;

```

```

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

```

```

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

```

Found in path(s):

```

*/opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/parse/BlockSetTransformer.g

```

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\*/

/\*

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

This file contains the default format ANTLR uses.

\*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "<id> <text>"

report(location, message, type) ::= "<type><message.id>: <location> <message.text>"

wantsSingleLineMessage() ::= "false"

Found in path(s):

\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg

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Found in path(s):

\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_text.java

\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/decl/TokenTypeDecl.java

\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/target/GoTarget.java

\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/ListenerDispatchMethod.java

\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/gui/BasicFontMetrics.java

\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/ANTLRMessage.java

\*

/opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/semantics/SymbolCollector.java

\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/Tool.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleAnalyzer.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java  
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* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
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 /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-  
 jar/org/antlr/v4/codegen/ActionTranslator.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-  
 jar/org/antlr/v4/codegen/OutputModelController.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-  
 jar/org/antlr/v4/parse/TokenVocabParser.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-  
 jar/org/antlr/v4/codegen/model/RuleActionFunction.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-  
 jar/org/antlr/v4/tool/Alternative.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-  
 jar/org/antlr/v4/codegen/model/Parser.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-  
 jar/org/antlr/v4/codegen/model/BaseVisitorFile.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-  
 jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java  
 \*  
 /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-  
 jar/org/antlr/v4/codegen/model/chunk/ActionText.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-  
 jar/org/antlr/v4/codegen/model/PlusBlock.java

\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/gui/TestRig.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/CodeGenPipeline.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/CaptureNextToken.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/misc/EscapeSequenceParsing.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/Grammar.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/ast/RuleAST.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/Rule.java  
 \*  
 /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/ast/RuleElementAST.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef\_text.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/automata/ATNFactory.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef\_stop.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/semantics/UseDefAnalyzer.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/ast/PlusBlockAST.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/unicode/UnicodeDataTemplateController.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/chunk/QRetValueRef.java  
 \*  
 /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/ErrorMessageManager.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/SerializedATN.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/LabelType.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/Sync.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/chunk/RetValueRef.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/OutputModelWalker.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/LabelElementPair.java  
 \*  
 /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-

```

jar/org/antlr/v4/tool/ast/TerminalAST.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/codegen/model/OutputModelObject.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/codegen/BlankOutputModelFactory.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/parse/ResyncToEndOfRuleBlock.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/gui/TreeView.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/automata/TailEpsilonRemover.java
*
/opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/tool/ANTLRToolListener.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/codegen/model/decl/TokenListDecl.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/analysis/AnalysisPipeline.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/codegen/model/dbg.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/codegen/model/VisitorFile.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/codegen/model/MatchToken.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/codegen/model/Recognizer.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/codegen/model/RuleElement.java
*
/opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/tool/LeftRecursionCyclesMessage.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/codegen/model/MatchSet.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/codegen/target/CSharpTarget.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/misc/CharSupport.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_line.java
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_stop.java
*

```

/opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/misc/MutableInt.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/semantics/BlankActionSplitterListener.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/ToolMessage.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/AttributeDict.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/OutputModelFactory.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/parse/GrammarASTAdaptor.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/Attribute.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/ExceptionClause.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/ParserFile.java  
 \*  
 /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/target/JavaTarget.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenListGetterDecl.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/UnicodeEscapes.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/gui/Trees.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/LexerGrammar.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/automata/LexerATNFactory.java  
 \*  
 /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/ast/BlockAST.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/misc/FrequencySet.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/misc/OrderedHashMap.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/GrammarTransformPipeline.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/ArgAction.java  
 \* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/misc/Utils.java

\*  
/opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/ast/AltAST.java  
\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/ast/GrammarRootAST.java  
\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/BuildDependencyGenerator.java  
\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/Action.java  
\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/AltBlock.java  
\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/codegen/model/ThrowRecognitionException.java  
\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/parse/v3TreeGrammarException.java  
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\*/

atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<



```

digraph ATN {
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>

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

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

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

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

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

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
label="
    <! rest(transition) tests for decision states: these nodes have a non-empty
set of transitions after the first one. !>
    <if(rest(transitions))>
    {
    <! Label on the left side of the record node. !>
    <label>
    |
    <! Named ports in order on right side of record node, no display text. !>

```

```

    {<transitions:{t|\<p<i0>>}; separator="|">} }
<else>
    <label>
<endif>
"
<if(rest(transitions))>
    , shape=record, fixedsize=false
<else>
    , shape=circle, fixedsize=true, width=.55
<endif>
    , peripheries=1];
%>

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

```

Found in path(s):

```
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/tool/templates/dot/graphs.stg
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Found in path(s):

```
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-  
jar/org/antlr/v4/parse/ANTLRParser.g
```

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```

```
*/
```

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

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

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

```
<if(file.genPackage)>
```

```
namespace <file.genPackage> {
```

```
<endif>
```

```
<namedActions.header>
```

```
using System;
```

```
using System.IO;
```

```

using System.Text;
using System.Diagnostics;
using System.Collections.Generic;
using
    Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using DFA = Antlr4.Runtime.Dfa.DFA;

```

```

<parser>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;

```

```

/// \<summary>
/// This interface defines a complete listener for a parse tree produced by
/// \<see cref="<csIdentifier.(file.parserName)>"/>.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
    <file.listenerNames> {Iname |
    /// \<summary>
    <if(file.listenerLabelRuleNames.(Iname))>
    /// Enter a parse tree produced by the \<c><Iname>\</c>
    /// labeled
    alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>"/>.
    <else>
    /// Enter a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
    <endif>
    /// \</summary>
    /// \<param name="context">The parse tree.\</param>
    void Enter<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname; format="cap">Context
    context);
    /// \<summary>
    <if(file.listenerLabelRuleNames.(Iname))>

```

```

/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
context);); separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>

```

```

using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

```

```

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
/// \</summary>

```

```

[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {

```

```

<file.listenerNames: {lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
///

```

```

Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>

```

```

/// \<para>The default implementation does nothing.\</para>

```

```

/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Enter<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
format="cap">Context context) { \}
/// \<summary>
<if(file.listenerLabelRuleNames.(Iname))>
/// Exit a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>">.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<Iname>">.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Exit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
format="cap">Context context) { \} }; separator="\n">

```

```

/// \<inheritdoc/>
///
\<remarks>The default implementation does nothing.\</remarks>
public virtual void EnterEveryRule([NotNull] ParserRuleContext context) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void VisitTerminal([NotNull] ITerminalNode node) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void VisitErrorNode([NotNull] IErrorNode node) { }
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

```

```

/// \<summary>
/// This interface defines a complete

```

```

generic visitor for a parse tree produced
/// by \<see cref="<csIdentifier.(file.parserName)>">/>.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Visitor<Result> : IParseTreeVisitor<Result> {
    <file.visitorNames:{ Iname |
/// \<summary>
<if(file.visitorLabelRuleNames.(Iname))>
/// Visit a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(Iname)>">/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<Iname>">/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
Result Visit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname; format="cap">Context
context);); separator="\n"
    }
<if(file.genPackage)>
} // namespace
<file.genPackage>
<endif>
>>

```

```

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}">/>,
/// which can be extended to create a visitor which only needs to handle a subset
/// of the available methods.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor<Result> : AbstractParseTreeVisitor<Result>,

```

```

I<file.grammarName>Visitor\<Result> {
  <file.visitorNames:{Iname |
  /// \<summary>
  <if(file.visitorLabelRuleNames.(Iname))>
  ///
  Visit a parse tree produced by the \<c><Iname>\</c>
  /// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(Iname)>">/>.
  <else>
  /// Visit a parse tree produced by \<see cref="<file.parserName>.<Iname>">/>.
  <endif>
  /// \<para>
  /// The default implementation returns the result of calling \<see
  cref="AbstractParseTreeVisitor{Result\}.VisitChildren(IRuleNode)">
  /// on \<paramref name="context">/>.
  /// \</para>
  /// \</summary>
  /// \<param name="context">The parse tree.\</param>
  /// \<return>The visitor result.\</return>
  public virtual Result Visit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
  format="cap">Context context) { return VisitChildren(context); \}}; separator="\n">
  }
  <if(file.genPackage)>
  } // namespace <file.genPackage>
  <endif>
  >>

```

```

fileHeader(grammarFileName, ANTLRVersion) ::= <<
//-----
// \<auto-generated>
//
// This code was generated by a tool.
// ANTLR Version: <ANTLRVersion>
//
// Changes to this file may cause incorrect behavior and will be lost if
// the code is regenerated.
// \</auto-generated>
//-----

```

```

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>

```

```

// Unreachable code detected
#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...'
#pragma warning disable 1591
// Ambiguous reference in cref attribute
#pragma warning disable 419

```



>>

```
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
```

```
<Parser_(ctor="parser_ctor", ...)>
```

>>

```
Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
```

```
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
```

```
[System.CLSCompliant(false)]
```

```
public partial class <csIdentifier.(parser.name)> : <superClass>;
```

```
    null="Parser"> {
```

```
        protected static DFA[] decisionToDFA;
```

```
        protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
```

```
        <if(parser.tokens)>
```

```
        public const int
```

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

```
        <endif>
```

```
        <if(parser.rules)>
```

```
        public const int
```

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

```
        <endif>
```

```
        public static readonly string[] ruleNames = {
```

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

```
        };
```

```
        <vocabulary(parser.literalNames, parser.symbolicNames)>
```

```
        public override string GrammarFileName { get { return "<parser.grammarFileName>"; } }
```

```
        public override string[] RuleNames { get { return ruleNames; } }
```

```
        public override string SerializedAtn { get { return new string(_serializedATN); } }
```

```
        static <csIdentifier.(parser.name)>() {
```

```
            decisionToDFA = new DFA[_ATN.NumberOfDecisions];
```

```
            for (int i = 0; i < _ATN.NumberOfDecisions; i++) {
```

```
                decisionToDFA[i] = new
```

```
                DFA(_ATN.GetDecisionState(i), i);
```

```
            }
```

```
        }
```

```
        <namedActions.members>
```

```
        <parser:(ctor)()>
```

```
        <funcs; separator="\n">
```

```
        <if(sempredFuncs)>
```

```
        public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
```

```

switch (ruleIndex) {
  <parser.sempredFuncs.values:{f}
case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
  }
  return true;
}
<sempredFuncs.values; separator="\n">
<endif>

<atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static readonly string[] _LiteralNames = {
  <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
private static readonly string[] _SymbolicNames = {
  <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);

[NotNull]
public override IVocabulary Vocabulary
{
  get
  {
    return DefaultVocabulary;
  }
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs)
::= <<
<if(actionFuncs)>
public override void Action(RuleContext _localctx, int ruleIndex, int actionIndex) {
  switch (ruleIndex) {
    <recog.actionFuncs.values:{f}
case <f.ruleIndex> : <f.name>_action(<if(!recog.modes)><f.ctxType><endif>_localctx, actionIndex); break;};
separator="\n">
  }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
  switch (ruleIndex) {
    <recog.sempredFuncs.values:{f}

```

```

case <f.ruleIndex> : return <f.name>_sempred(<if(!recog.modes)><f.ctxType><endif>_localctx, predIndex);};
separator="\n">
}
return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

```

```

parser_ctor(parser) ::= <<
public <csIdentifier.(parser.name)>(ITokenStream input) : this(input, Console.Out, Console.Error) { }

public <csIdentifier.(parser.name)>(ITokenStream input, TextWriter output, TextWriter errorOutput)
: base(input, output, errorOutput)
{
Interpreter = new ParserATNSimulator(this,
_ATN, decisionToDFA, sharedContextCache);
}
>>

```

```

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

```

RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
switch (actionIndex) {
<actions:{index|
case <index>: <actions.(index)> break;}; separator="\n">
}
}
>>

```

```

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

```

RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
switch (predIndex) {
<actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
}
return true;
}
>>

```

```

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

```

```

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

[RuleVersion(<namedActions.version;
null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)><(args; separator=", "> {
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>>>);
EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
}
<if(exceptions)>
<exceptions; separator="\n">
<else>
catch (RecognitionException re) {
_localctx.exception = re;
ErrorHandler.ReportError(this, re);
ErrorHandler.Recover(this, re);
}
<endif>
finally {
<finallyAction>
ExitRule();
}
return _localctx;
}
>>

LeftFactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

```

```

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f>
}><else>private <endif><currentRule.ctxType> <csIdentifier.(currentRule.name)><(args; separator=", "> {
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>>>);
EnterLeftFactoredRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
<namedActions.init>

```

```

<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
  }
finally {
  <finallyAction>
  ExitRule();
  }
return _localctx;
}
>>

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.
LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers: { f
| <f >><else>private <endif><currentRule.ctxType> <csIdentifier.(currentRule.name)><(args; separator=", "> {
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{ a | ,
<csIdentifier.(a.name)>>>);
EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
  }
}

```

```

finally {
  <finallyAction>
  ExitRule();
}
return _localctx;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::=
<<

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

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers: {f
| <f> }><else>public <endif><currentRule.ctxType> <csIdentifier.(currentRule.name)>(<args; separator=", ">) {
return <csIdentifier.(currentRule.name)>(0<currentRule.args:{a | , <csIdentifier.(a.name)>}>);
}

private <currentRule.ctxType> <csIdentifier.(currentRule.name)>(int _p<args:{a | , <a>}>) {
  ParserRuleContext _parentctx = Context;
  int _parentState = State;
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{a | ,
  <csIdentifier.(a.name)>}>);
  <currentRule.ctxType> _prevctx = _localctx;
  int _startState = <currentRule.startState>;
  EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
  <namedActions.init>
  <locals; separator="\n">
  try {
  <if(currentRule.hasLookaheadBlock)>
  int _alt;
  <endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
  catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this,
  re);
  }
  finally {
  <finallyAction>
  UnrollRecursionContexts(_parentctx);
}

```

```

}
return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
EnterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlock(choice,
alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
break;
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<

```

```

State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
if (<expr>) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
  <alts; separator="\n">
  State = <choice.loopBackStateNumber>;
  ErrorHandler.Sync(this);
  <iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
<preamble; separator="\n">
do {
  <alts; separator="\n">
  State = <choice.stateNumber>;<!
  loopback/exit decision !>
  ErrorHandler.Sync(this);
  <iteration>
} while ( <loopExpr> );
>>

```

// LL(\*) stuff

```

AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{ alt |
case <i>:
  <alt>
  break;}; separator="\n">
}
>>

```



```

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{ alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER
) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
<iteration>
<alts> <! should only be one !>
}
State = <choice.loopBackStateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
switch ( _alt ) {
<alts:{ alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
default:
<error>
}
State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER );
>>

```

```

Sync(s) ::= "Sync(<s.expecting.name>);"

```

```

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes))>><bitsetBitfieldComparison(s,
bits)><else><bitsetInlineComparison(s, bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<< <offsetShift(s.varName, bits.shift)> &
(<bits.ttypes:{ttype | (1L \<< <offsetShift(tokenType.(ttype), bits.shift)>}); separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<tokenType.(ttype)>}; separator=" || ">
%>

cases(ttypes)
::= <<
<ttypes:{t | case <tokenType.(t)>:}; separator="\n">
>>

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

MatchToken(m) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>Match(<tokenType.(m.name)>);

```

>>

```
MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"
```

```
MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"
```

```
CommonSetStuff(m, expr, capture, invert) ::= <<
```

```
State = <m.stateNumber>;
```

```
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>TokenStream.LT(1);<endif>
```

```
<capture>
```

```
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
```

```
  <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>ErrorHandler.RecoverInline(this);
```

```
}
```

```
else {
```

```
  ErrorHandler.ReportMatch(this);
```

```
  Consume();
```

```
}
```

```
>>
```

```
Wildcard(w) ::= <<
```

```
State = <w.stateNumber>;
```

```
<if(w.labels)><w.labels:{1
```

```
  | <labelref(l)> = }><endif>MatchWildcard();
```

```
>>
```

```
// ACTION STUFF
```

```
Action(a, foo, chunks) ::= "<chunks>"
```

```
ArgAction(a, chunks) ::= "<chunks>"
```

```
SemPred(p, chunks, failChunks) ::= <<
```

```
State = <p.stateNumber>;
```

```
if (!<chunks>) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
```

```
<failChunks><elseif(p.msg)>, <p.msg><endif>);
```

```
>>
```

```
ExceptionClause(e, catchArg, catchAction) ::= <<
```

```
catch (<catchArg>) {
```

```
  <catchAction>
```

```
}
```

```
>>
```

```
// lexer actions are not associated with model objects
```

```
LexerSkipCommand() ::= "Skip()";
```

```
LexerMoreCommand() ::= "More()";
```

```
LexerPopModeCommand() ::= "PopMode()";
```

```

LexerTypeCommand(arg, grammar) ::= "_type = <tokenType.(arg)>";
LexerChannelCommand(arg, grammar) ::= "_channel = <channelName.(arg)>";
LexerModeCommand(arg, grammar) ::= "_mode = <modeName.(arg)>";
LexerPushModeCommand(arg, grammar) ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
LocalRef(a)
  ::= "_localctx.<csIdentifier.(a.name)>"
RetValRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<csIdentifier.(a.name)>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<csIdentifier.(tokenType.(t.name))>"
LabelRef(t) ::= "<ctx(t)>.<csIdentifier.(t.name)>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(csIdentifier.(t.name))>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<csIdentifier.(s.name)> = <rhsChunks>";

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

TokenPropertyRef_text(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t)
  ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_text(r) ::=
"<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r) ::= "_localctx.Stop"
ThisRulePropertyRef_text(r) ::= "TokenStream.GetText(_localctx.Start, TokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r)
  ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

```

```

NonLocalAttrRef(s) ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)>%>
SetNonLocalAttr(s, rhsChunks) ::=
<%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)> =
<rhsChunks>;%>

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.Add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType() <csIdentifier.(tokenType.(t.name))>"
TokenTypeDecl(t) ::= "int <csIdentifier.(tokenType.(t.name))>);"
TokenListDecl(t) ::= "IList<IToken> <csIdentifier.(tokenType.(t.name))> = new List<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <csIdentifier.(r.name)>"
RuleContextListDecl(rdecl) ::= "IList<<rdecl.ctxName>> <csIdentifier.(rdecl.name)> = new
List<<rdecl.ctxName>>()"

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

ContextTokenGetterDecl(t) ::=
[System.Diagnostics.DebuggerNonUserCode]
public ITerminalNode <csIdentifier.(tokenType.(t.name))>() { return
GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, 0); }
ContextTokenListGetterDecl(t) ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection("ITerminalNode")>
<csIdentifier.(tokenType.(t.name))>() { return
GetTokens(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>); }
>>
ContextTokenListIndexedGetterDecl(t) ::= <<
[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <csIdentifier.(tokenType.(t.name))>(int i) {
return GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, i);
}
>>
ContextRuleGetterDecl(r) ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <csIdentifier.(r.name)>() {
return GetRuleContext<<r.ctxName>>();
}
>>
ContextRuleListGetterDecl(r) ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection({<r.ctxName>})>
<csIdentifier.(r.name)>() {
return GetRuleContexts<<r.ctxName>>();
}
>>
ContextRuleListIndexedGetterDecl(r)
::= <<
[System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <csIdentifier.(r.name)>(int i) {
return GetRuleContext<<r.ctxName>>(i);
}

```

```

}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "_<label>"

CaptureNextToken(d) ::= "<d.varName> = TokenStream.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = TokenStream.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
    superClass={ParserRuleContext}) ::= <<
public partial class <struct.name> :
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif>
{
<attrs:{a | public <a>;}; separator="\n">
<getters:{g | <g>;}; separator="\n">
<if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) : base(parent, invokingState) {
}<endif>
public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>>>)
: base(parent, invokingState)
{
<struct.ctorAttrs:{a | this.<csIdentifier.(a.name)> = <csIdentifier.(a.name)>;}; separator="\n">
}
public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
public <struct.name>() { }
public virtual void CopyFrom(<struct.name> context) {
base.CopyFrom(context);
<struct.attrs:{a | this.<csIdentifier.(a.name)> = context.<csIdentifier.(a.name)>;}; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public partial class <struct.name> : <currentRule.name>

```

```

format="cap">Context {
<attrs:{a | public <a>;}; separator="\n">
<getters:{g | <g>;}; separator="\n">
public <struct.name>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
<dispatchMethods; separator="\n">
}
>>

```

```

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

```

```

VisitorDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
public override TResult Accept<TResult>(IParseTreeVisitor<TResult> visitor) {
I<parser.grammarName>Visitor<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor<TResult>;
if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
else
return visitor.VisitChildren(this);
}
>>

```

```

AttributeDecl(d) ::= "<d.type> <csIdentifier.(d.name)><if(d.initValue)> = <d.initValue><endif>"

```

```

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)>.<endif><csIdentifier.(x.name)>"

```

```

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"

```

```

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

```

```

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>";"
recRuleSetStopToken() ::= "Context.Stop = TokenStream.LT(-1);"

```

```

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx,
_parentState);
<if(label)>
<if(isListLabel)>

```

```

_localctx.<label>.Add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
Context = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( ParseListeners!=null )
    TriggerExitRuleEvent();
_prevctx = _localctx;
>>

LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName,
file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;

```



```

<lexer>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(lexer.name)> : <superClass; null="Lexer"> {
    protected static DFA[] decisionToDFA;
    protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
    <if(lexer.tokens)>
    public const int
        <lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
    <endif>
    <if(lexer.channels)>
    public const int
        <lexer.channels:{k | <csIdentifier.(k)>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>;
    <endif>
    <if(rest(lexer.modes)>
    public
    const int
        <rest(lexer.modes){m | <m>=<i>}; separator=", ", wrap, anchor>;
    <endif>
    public static string[] channelNames = {
        "DEFAULT_TOKEN_CHANNEL", "HIDDEN" <if (lexer.channels)>, <lexer.channels:{c | <c>}"; separator=", ",
wrap, anchor><endif>
    };

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

    public static readonly string[] ruleNames = {
        <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
    };

    <namedActions.members>

    public <csIdentifier.(lexer.name)>(ICharStream input)
    : this(input, Console.Out, Console.Error) { }

    public <csIdentifier.(lexer.name)>(ICharStream input, TextWriter output, TextWriter errorOutput)
    : base(input, output, errorOutput)
    {
        Interpreter = new LexerATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
    }
}

```

```

}

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

public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

public
override string[] RuleNames { get { return ruleNames; } }

public override string[] ChannelNames { get { return channelNames; } }

public override string[] ModeNames { get { return modeNames; } }

public override string SerializedAtn { get { return new string(_serializedATN); } }

static <csIdentifier.(lexer.name)>() {
    decisionToDFA = new DFA[_ATN.NumberOfDecisions];
    for (int i = 0; i < _ATN.NumberOfDecisions; i++) {
        decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
    }
}
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>

SerializedATN(model) ::= <<
private static char[] _serializedATN = {
    <model.serialized; separator=", ", wrap>,
};

public static readonly ATN _ATN =
    new ATNDeserializer().Deserialize(_serializedATN);

>>

initValue(typeName) ::= <<
default(<typeName>)
>>

codeFileExtension() ::= ".cs"

modeName ::= [
    "DEFAULT_MODE" : "DefaultMode",
    default : key
]

```

```
channelName ::= [  
  "HIDDEN" : "Hidden",  
  "DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",  
  default  
  : key  
]
```

```
tokenType ::= [  
  "EOF" : "Eof",  
  default : key  
]
```

```
csIdentifier ::= [  
  "abstract" : "@abstract",  
  "as" : "@as",  
  "base" : "@base",  
  "bool" : "@bool",  
  "break" : "@break",  
  "byte" : "@byte",  
  "case" : "@case",  
  "catch" : "@catch",  
  "char" : "@char",  
  "checked" : "@checked",  
  "class" : "@class",  
  "const" : "@const",  
  "continue" : "@continue",  
  "decimal" : "@decimal",  
  "default" : "@default",  
  "delegate" : "@delegate",  
  "do" : "@do",  
  "double" : "@double",  
  "else" : "@else",  
  "enum" : "@enum",  
  "event" : "@event",  
  "explicit" : "@explicit",  
  "extern" : "@extern",  
  "false" : "@false",  
  "finally" : "@finally",  
  "fixed" : "@fixed",  
  "float" : "@float",  
  "for" : "@for",  
  "foreach" : "@foreach",  
  "goto" : "@goto",  
  "if" : "@if",  
  "implicit" : "@implicit",  
  "in" : "@in",  
  "int" : "@int",
```

```
"interface" : "@interface",
"internal" : "@internal",
"is" : "@is",
"lock" : "@lock",
"long" : "@long",
"namespace" : "@namespace",
"new" : "@new",
"null" : "@null",
"object"
: "@object",
"operator" : "@operator",
"out" : "@out",
"override" : "@override",
"params" : "@params",
"private" : "@private",
"protected" : "@protected",
"public" : "@public",
"readonly" : "@readonly",
"ref" : "@ref",
"return" : "@return",
"sbyte" : "@sbyte",
"sealed" : "@sealed",
"short" : "@short",
"sizeof" : "@sizeof",
"stackalloc" : "@stackalloc",
"static" : "@static",
"string" : "@string",
"struct" : "@struct",
"switch" : "@switch",
"this" : "@this",
"throw" : "@throw",
>true" : "@true",
"try" : "@try",
"typeof" : "@typeof",
"uint" : "@uint",
"ulong" : "@ulong",
"unchecked" : "@unchecked",
"unsafe" : "@unsafe",
"ushort" : "@ushort",
"using" : "@using",
"virtual" : "@virtual",
"values" : "@values",
"void" : "@void",
"volatile" : "@volatile",
"while" : "@while",
default : key
]
```

Found in path(s):

```
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-  
jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
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```

```
*/
```

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

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

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

```
*
```

```
* REQUIRED.
```

```
*/
```

```
pythonTypeInitMap ::= [
```

```
"bool": "False",
```

```
"int": "0",
```

```
"float": "0.0",
```

```

"str": "",
default: "None" // anything other
than a primitive type is an object
]

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

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
    from typing import TextIO
else:
    from typing.io import TextIO

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
    from <file.parserName> import <file.parserName>
else:
    from <file.parserName> import <file.parserName>
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

    <file.listenerNames>: {Iname |
# Enter a parse tree produced by <file.parserName>#<Iname>.
def enter<Iname>(self, ctx: <file.parserName>.<Iname>
format="cap">Context):
    pass

# Exit a parse tree produced by <file.parserName>#<Iname>.
def exit<Iname>(self, ctx: <file.parserName>.<Iname>
format="cap">Context):
    pass

}; separator="\n">

del <file.parserName>

```

>>

```
VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
    from .<file.parserName> import <file.parserName>
else:
    from <file.parserName> import <file.parserName>
<header>
```

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

```
class <file.grammarName>Visitor(ParseTreeVisitor):
```

```
    <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    return self.visitChildren(ctx)
```

```
}; separator="\n">
```

```
del <file.parserName>
```

>>

```
fileHeader(grammarFileName, ANTLRVersion)
::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>
```

```
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>
```

```
Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from .<superClass> import <superClass>
else:
    from <superClass> import <superClass>

<endif>
<atn>
```

```
class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):
```

```

grammarFileName = "<parser.grammarFileName>"

atn = ATNDeserializer().deserialize(serializedATN())

decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

sharedContextCache = PredictionContextCache()

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

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

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

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

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

<parser:(ctor())>

<namedActions.members>

<funcs; separator="\n">

<if(sempredFuncs)>
  def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates == None:
      self._predicates = dict()
  <parser.sempredFuncs.values:{f |
    self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n    ">
    pred = self._predicates.get(ruleIndex, None)
    if pred is None:
      raise Exception("No predicate with index:" + str(ruleIndex))
    else:
      return pred(localctx, predIndex)

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

```



>>

```
dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
```

```
<if(actionFuncs)>
```

```
def
```

```
action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
```

```
    if self._actions is None:
```

```
        actions = dict()
```

```
<recog.actionFuncs.values: {f]
```

```
    actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
```

```
    self._actions = actions
```

```
    action = self._actions.get(ruleIndex, None)
```

```
    if action is not None:
```

```
        action(localctx, actionIndex)
```

```
    else:
```

```
        raise Exception("No registered action for:" + str(ruleIndex))
```

```
<actionFuncs.values; separator="\n">
```

```
<endif>
```

```
<if(sempredFuncs)>
```

```
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
```

```
    if self._predicates is None:
```

```
        preds = dict()
```

```
<recog.sempredFuncs.values: {f]
```

```
    preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
```

```
    self._predicates = preds
```

```
    pred = self._predicates.get(ruleIndex, None)
```

```
    if pred is not None:
```

```
        return pred(localctx, predIndex)
```

```
    else:
```

```
        raise Exception("No registered predicate for:" + str(ruleIndex))
```

```
<sempredFuncs.values;
```

```
separator="\n">
```

```
<endif>
```

>>

```
parser_ctor(p) ::= <<
```

```
def __init__(self, input:TokenStream, output:TextIO = sys.stdout):
```

```
    super().__init__(input, output)
```

```
    self.checkVersion("<file.ANTLRVersion>")
```

```
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
```

```
    self._predicates = None
```

>>

```
/* This generates a private method since the actionIndex is generated, making an
```

```

* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
<if(first(actions))>
  if actionIndex == <index>:
    <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
    <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self,
localctx:<r.ctxType>, predIndex:int):
  <actions:{index|
<if(first(actions))>
  if predIndex == <index>:
    return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
    return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

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

def <currentRule.name>(self<currentRule.args:{a | , <a.name><if(a.type)>:<a.type><endif>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
  try:
    <code>
    <postamble; separator="\n">

```

```

    <namedActions.after>
<if(exceptions)>
<exceptions; separator="\n">
<else>
except RecognitionException as re:

localctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)
<endif>
finally:
    <finallyAction>
    self.exitRule()
return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::=
<<

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

def <currentRule.name>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
    _parentctx = self._ctx
    _parentState = self.state
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
    _prevctx = localctx
    _startState = <currentRule.startState>
    self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    except RecognitionException as re:
        localctx.exception = re
        self._errHandler.reportError(self, re)
        self._errHandler.recover(self, re)
    finally:
        <finallyAction>
        self.unrollRecursionContexts(_parentctx)
    return localctx

>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt|
<cases(ttypes=look)>
<alt>
pass}; separator="\n"|>
else:
<error>

>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
pass}; separator="\n"|>
else:
pass
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
<alts; separator="\n">

<!else if ( !(<followExpr> ) ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
    <alts; separator="\n">
    self.state = <choice.loopBackStateNumber>
    self._errHandler.sync(self)
    <iteration>

>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state
= <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
    <alts; separator="\n">
    self.state = <choice.stateNumber> <! loopback/exit decision !>
    self._errHandler.sync(self)
    <iteration>
    if not (<loopExpr>):
        break

>>

```

```
// LL(*) stuff
```

```

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i>:
    <alt>
    pass
}; separator="\nel">

>>

```

```

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)

```

```

la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">

```

```
>>
```

```

StarBlock(choice, alts, sync, iteration) ::=
<<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
    <iteration>
    <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

```

```
>>
```

```

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt |
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
    <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

```

```
>>
```

```

Sync(s)
::= "sync(<s.expecting.name>)"

```

```

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

```

```

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">

```

>>

```
// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>
```

```
// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange(<offsetShiftVar(s.varName, bits.shift)>)>) and ((1 \<< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>
```

```
isZero ::= [
"0":true,
default:false
]
```

```
offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>
```

```
offsetShiftType(shiftAmount,
offset) ::= <%
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>
%>
```

```
// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>}; separator=" or ">
%>
```

```
cases(ttypes) ::= <<
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", ">]:
>>
```

```
InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{1 | <labelref(l)> =
}><endif>self.<r.name><(if(r.ast.options.p)><r.ast.options.p><(if(argExprsChunks)><endif><endif><argExprsChu
nks)>
>>
```

```
MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>
```

```
MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"
```

```
MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"
```

```
CommonSetStuff(m, expr, capture, invert) ::=
```

```
<<
```

```
self.state = <m.stateNumber>
```

```
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>self._input.LT(1)<endif>
```

```
<capture>
```

```
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr><endif>:
```

```
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><else> <endif>self._errHandler.recoverInline(self)
```

```
else:
```

```
    self._errHandler.reportMatch(self)
```

```
    self.consume()
```

```
>>
```

```
Wildcard(w) ::= <<
```

```
self.state = <w.stateNumber>
```

```
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>self.matchWildcard()
```

```
>>
```

```
// ACTION STUFF
```

```
Action(a, foo, chunks) ::= "<chunks>"
```

```
ArgAction(a, chunks) ::= "<chunks>"
```

```
SemPred(p, chunks, failChunks) ::= <<
```

```
self.state = <p.stateNumber>
```

```
if not <chunks>:
```

```
    from antlr4.error.Errors import FailedPredicateException
```

```
    raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
```

```
<p.msg><endif>)
```

```
>>
```

```
ExceptionClause(e, catchArg, catchAction) ::= <<
```

```
except <catchArg>:
```

```
    <catchAction>
```

```
>>
```

```
// lexer actions are not associated with model objects
```

```
LexerSkipCommand()
```

```
    ::= "skip()"
```

```
LexerMoreCommand() ::= "more()"
```

```
LexerPopModeCommand() ::= "popMode()"
```

```
LexerTypeCommand(arg, grammar)    ::= "_type = <arg>"
```



```

LexerChannelCommand(arg, grammar) ::= "_channel = <arg>"
LexerModeCommand(arg, grammar) ::= "_mode = <arg>"
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

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

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t)
::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r)
::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "self._input.getText(localctx.start, self._input.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "self.getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "self.getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"

```

```
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"
```

```
ContextTokenGetterDecl(t) ::= <<
def <t.name>(self):
    return self.getToken(<parser.name>.<t.name>, 0)
>>
```

```
// should never
be called
```

```
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>
```

```
ContextTokenListIndexedGetterDecl(t) ::= <<
def <t.name>(self, i:int=None):
    if i is None:
        return self.getTokens(<parser.name>.<t.name>)
    else:
        return self.getToken(<parser.name>.<t.name>, i)
>>
```

```
ContextRuleGetterDecl(r) ::= <<
def <r.name>(self):
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)
>>
```

```
// should never be called
```

```
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
>>
```

```
ContextRuleListIndexedGetterDecl(r) ::= <<
def <r.name>(self, i:int=None):
    if i is None:
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
        return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)
>>
```

```
LexerRuleContext() ::= "RuleContext"
```

```

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):
    __slots__ = 'parser'

    def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{ a | ,
<a.name><if(a.type)>:<a.type><endif>=None }>):
        super().__init__(parent, invokingState)
        self.parser = parser
        <attrs:{ a | <a> }; separator="\n">
        <struct.ctorAttrs:{ a | self.<a.name> = <a.name> }; separator="\n">

        <getters:{ g | <g> }; separator="\n\n">

    def getRuleIndex(self):
        return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)>
<! don't need copy unless we have subclasses !>
    def copyFrom(self, ctx:ParserRuleContext):
        super().copyFrom(ctx)
        <struct.attrs:{ a | self.<a.name> = ctx.<a.name> }; separator="\n">

<endif>
    <dispatchMethods; separator="\n">
    <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

    def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
format="cap">Context
        super().__init__(parser)

```

```

    <attrs:{ a | <a> }; separator="\n">
    self.copyFrom(ctx)

    <getters:{ g | <g> }; separator="\n">

    <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
    if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
format="cap">" ):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
    if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
    else:
        return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName,
    ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName>

```

```

format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

```

```

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

```

```

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
    self.triggerExitRuleEvent()
_prevctx = localctx
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName,
lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO
from typing.io import TextIO
import sys

```

```

<namedActions.header>

```

```

<lexer>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from .<superClass> import <superClass>
else:
    from <superClass> import <superClass>
<endif>
<atn>

```

```

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

```

```

atn = ATNDeserializer().deserialize(serializedATN())

decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.channels)>
  <lexer.channels:{c| <c> = <lexer.channels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.modes))>
  <rest(lexer.modes){m| <m> = <i>}; separator="\n">

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

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

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

literalNames = [ "\<INVALID>",
  <lexer.literalNames:{t | <t>}; separator=", ", wrap, anchor> ]

symbolicNames = [ "\<INVALID>",
  <lexer.symbolicNames:{t | <t>}; separator=", ", wrap, anchor> ]

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

grammarFileName = "<lexer.grammarFileName>"

def __init__(self, input=None, output:TextIO = sys.stdout):
  super().__init__(input, output)
  self.checkVersion("<lexerFile.ANTLRVersion>")
  self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
  self._actions = None
  self._predicates = None

<namedActions.members>

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

>>

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

```

```
def serializedATN():
    with StringIO() as buf:
        buf.write("<model.serialized; wrap={ }<\n>    buf.write(" }>")
        return buf.getvalue()
```

```
>>
```

```
/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<pythonTypeInitMap.(typeName)>
>>
```

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

Found in path(s):

```
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
```

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```

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\*/

```
dartTypeInitMap ::= [  
  "int": "0",  
  "double": "0.0",  
  "bool": "false",  
  default: "null" // anything other than a primitive type is an object  
]
```

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

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

```
import 'package:antlr4/antlr4.dart';  
import 'dart:io';
```

```
<if(file.genListener)>  
part '<file.grammarName>Listener.dart';  
part '<file.grammarName>BaseListener.dart';  
<endif>  
<if(file.genVisitor)>  
part '<file.grammarName>Visitor.dart';  
part '<file.grammarName>BaseVisitor.dart';  
<endif>  
part '<file.grammarName>Lexer.dart';  
<else>  
import 'package:antlr4/antlr4.dart';  
import 'dart:io';
```

```
<if(file.genListener)>  
import '<file.grammarName>Listener.dart';  
import '<file.grammarName>BaseListener.dart';  
<endif>  
<if(file.genVisitor)>  
import '<file.grammarName>Visitor.dart';  
import '<file.grammarName>BaseVisitor.dart';  
<endif>  
<endif>
```



```

<namedActions.header>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

import '<file.parserName>.dart';
<endif>
<header>

///
This abstract class defines a complete listener for a parse tree produced by
/// [<file.parserName>].
abstract class <file.grammarName>Listener extends ParseTreeListener {
<file.listenerNames:{Iname |
<if(file.listenerLabelRuleNames.(Iname))>
/// Enter a parse tree produced by the [<Iname>]
/// labeled alternative in [file.parserName>.<file.listenerLabelRuleNames.(Iname)>].
<else>
/// Enter a parse tree produced by [<file.parserName>.<Iname>].
<endif>
/// [ctx] the parse tree
void enter<Iname; format="cap">(<Iname; format="cap">Context ctx);
<if(file.listenerLabelRuleNames.(Iname))>
/// Exit a parse tree produced by the [<Iname>]
/// labeled alternative in [<file.parserName>.<file.listenerLabelRuleNames.(Iname)>].
<else>
/// Exit a parse tree produced by [<file.parserName>.<Iname>].
<endif>
/// [ctx] the parse tree
void exit<Iname; format="cap">(<Iname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseListenerFile(file, header, namedActions)
::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

import '<file.parserName>.dart';

```

```

import '<file.grammarName>Listener.dart';
<endif>

<header>

/// This class provides an empty implementation of [<file.grammarName>Listener],
/// which can be extended to create a listener which only needs to handle
/// a subset of the available methods.
class <file.grammarName>BaseListener implements <file.grammarName>Listener {
  <file.listenerNames>: {Iname |

  /// The default implementation does nothing.
  @override
  void enter<Iname; format="cap">(<Iname; format="cap">Context ctx) {}

  /// The default implementation does nothing.
  @override
  void exit<Iname; format="cap">(<Iname; format="cap">Context ctx) {}}; separator="\n">

  /// The default implementation does nothing.
  @override
  void enterEveryRule(ParserRuleContext ctx) {}

  /// The default implementation does nothing.
  @override
  void exitEveryRule(ParserRuleContext ctx) {}

  /// The default implementation does nothing.
  @override
  void visitTerminal(TerminalNode node) {}

  /// The default implementation does nothing.
  @override
  void visitErrorNode(ErrorNode node) {}
}

>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

import '<file.parserName>.dart';
<endif>
<header>

```

```

/// This abstract class defines a complete generic visitor for a parse tree
/// produced by [<file.parserName>].
///
/// [T] is the return type of the visit operation. Use `void` for
/// operations with no return type.
abstract class <file.grammarName>Visitor<T> extends ParseTreeVisitor<T> {
  <file.visitorNames:{Iname |
<if(file.visitorLabelRuleNames.(Iname))>
  /// Visit a parse tree produced by the { @code <Iname>}
  /// labeled alternative in { @link <file.parserName>#<file.visitorLabelRuleNames.(Iname)>}
  <else>
  ///
  Visit a parse tree produced by [<file.parserName>.<Iname>].
  <endif>
  /// [ctx] the parse tree.
  /// Return the visitor result.
  T visit<Iname; format="cap">(<Iname; format="cap">Context ctx);}; separator="\n">
  }
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

import '<file.parserName>.dart';
import '<file.grammarName>Visitor.dart';
<endif>
<header>

/// This class provides an empty implementation of [<file.grammarName>Visitor],
/// which can be extended to create a visitor which only needs to handle
/// a subset of the available methods.
///
/// [T] is the return type of the visit operation. Use `void` for
/// operations with no return type.
class <file.grammarName>BaseVisitor<T> extends ParseTreeVisitor<T> implements
<file.grammarName>Visitor<T> {
  <file.visitorNames:{Iname |
  /// The default implementation
  returns the result of calling
  /// [visitChildren] on [ctx].
  @override
  T visit<Iname; format="cap">(<Iname; format="cap">Context ctx) => visitChildren(ctx);}; separator="\n">
  }

```

>>

```
fileHeader(grammarFileName, ANTLRVersion) ::= <<  
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>  
// ignore_for_file: unused_import, unused_local_variable, prefer_single_quotes  
>>
```

```
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<  
<Parser_(ctor="parser_ctor", ...)>  
>>
```

```
Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<  
<if(namedActions.definitions)><namedActions.definitions><endif>  
<if(parser.rules)>  
const int <parser.rules:{r | RULE_<r.name> = <r.index>}>; separator=", ", wrap, anchor;<br><endif>  
class <parser.name> extends <superClass; null="Parser"> {  
    static final checkVersion = () => RuntimeMetaData.checkVersion('<file.ANTLRVersion>',  
RuntimeMetaData.VERSION);  
    static const int TOKEN_EOF = IntStream.EOF;  
  
    static final List<DFA> _decisionToDFA = List.generate(  
  
        _ATN.numberOfDecisions, (i) => DFA(_ATN.getDecisionState(i), i));  
    static final PredictionContextCache _sharedContextCache = PredictionContextCache();  
<if(parser.tokens)>  
    static const int <parser.tokens:{k | TOKEN_<k> = <parser.tokens.(k)>}>; separator=", ", wrap, anchor;<br><endif>  
  
    @override  
    final List<String> ruleNames = [  
        <parser.ruleNames:{r | '<r>'}>; separator=", ", wrap, anchor<br>    ];  
  
    <vocabulary(parser.literalNames, parser.symbolicNames)>  
  
    @override  
    String get grammarFileName => '<parser.grammarFileName>';  
  
    @override  
    String get serializedATN => _serializedATN;  
  
    @override  
    ATN getATN() {  
        return _ATN;  
    }  
  
    <namedActions.members>
```

```

<parser:(ctor)()>
<funcs; separator="\n">

<if(sempredFuncs)>
@override
bool sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <parser.sempredFuncs.values:{f}
case <f.ruleIndex>:
return _<f.name>_sempred(_localctx, predIndex);}; separator="\n">
    }
    return true;
}
<sempredFuncs.values; separator="\n">
<endif>

<atn>
}
<funcs:{ func | <if(func.ruleCtx)><func.ruleCtx><endif>}; separator="\n\n">

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

vocabulary(literalNames, symbolicNames) ::= <<
static final List<String> _LITERAL_NAMES = [
    <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
static final List<String> _SYMBOLIC_NAMES = [
    <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
static final Vocabulary VOCABULARY = VocabularyImpl(_LITERAL_NAMES, _SYMBOLIC_NAMES);

@override
Vocabulary get vocabulary {
    return VOCABULARY;
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
    switch (ruleIndex) {
        <recog.actionFuncs.values:{f}
case <f.ruleIndex>:
    _<f.name>_action(_localctx, actionIndex);
    break;}; separator="\n">
    }
}

```

```

}
<actionFuncs.values;
separator="\n">
<endif>
<if(sempredFuncs)>
bool sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
switch (ruleIndex) {
<recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
return _<f.name>_sempred(_localctx, predIndex);}; separator="\n">
}
return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
<p.name>(TokenStream input) : super(input) {
interpreter = ParserATNSimulator(this, _ATN, _decisionToDFA, _sharedContextCache);
}
>>

/// This generates a private method since the actionIndex is generated, making an
/// overriding implementation impossible to maintain.
RuleActionFunction(r, actions) ::= <<
void _<r.name>_action(<r.ctxType> _localctx, int actionIndex) {
switch (actionIndex) {
<actions:{index|case <index>: <actions.(index)> break;}; separator="\n">
}
}
>>

/// This generates a private method since the predIndex is generated, making an
/// overriding implementation impossible to maintain.
RuleSempredFunction(r,
actions) ::= <<
bool _<r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
switch (predIndex) {
<actions:{index|case <index>: return <actions.(index)>;}; separator="\n">
}
return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

```

```

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else><endif><currentRule.ctxType>
<currentRule.name><(<args; separator=", ">) {
dynamic _localctx = <currentRule.ctxType><(context, state<currentRule.args:{a | , <a.name>}>>);
enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
} <if(exceptions)> <exceptions; separator="\n"><else>on RecognitionException catch (re) {
_localctx.exception = re;
errorHandler.reportError(this, re);
errorHandler.recover(this,
re);
}<endif> finally {
<finallyAction>
exitRule();
}
return _localctx;
}
>>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::=
<<

```

```

<currentRule.ctxType> <currentRule.name><([int _p = 0]<args:{a | , <a>}>>) {
final _parentctx = context;
final _parentState = state;
dynamic _localctx = <currentRule.ctxType><(context, _parentState<currentRule.args:{a | , <a.name>}>>);
var _prevctx = _localctx;
var _startState = <currentRule.startState>;
enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
} on RecognitionException catch (re) {
_localctx.exception = re;

```

```

    errorHandler.reportError(this, re);
    errorHandler.recover(this, re);
} finally {
    <finallyAction>
    unrollRecursionContexts(_parentctx);
}
return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = tokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (tokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
switch
(tokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
break;
}

```



>>

```
LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
<preamble; separator="\n">
if (<expr>) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>
```

```
LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
  <alts; separator="\n">
  state = <choice.loopBackStateNumber>;
  errorHandler.sync(this);
  <iteration>
}
>>
```

```
LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
state = <choice.blockStartStateNumber>; <! alt block decision !>
errorHandler.sync(this);
<preamble; separator="\n">
do {
  <alts; separator="\n">
  state = <choice.stateNumber>; <! loopback/exit decision !>
  errorHandler.sync(this);
  <iteration>
} while (<loopExpr>);
>>
```

// LL(\*) stuff

```
AltBlock(choice, preamble, alts, error) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = tokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (interpreter.adaptivePredict(tokenStream, <choice.decision>, context)) {
<alts:{ alt |
case <i>:
  <alt>
break;}; separator="\n">
```

```
}  
>>
```

```
OptionalBlock(choice, alts, error) ::= <<  
state = <choice.stateNumber>;  
errorHandler.sync(this);  
switch (interpreter.adaptivePredict(tokenStream, <choice.decision>, context)) {  
  <alts:{alt |  
case <i><if(!choice.ast.greedy)>+1<endif>:  
  <alt>  
  break;}; separator="\n">  
}  
>>
```

```
StarBlock(choice, alts, sync, iteration) ::= <<  
state = <choice.stateNumber>;  
errorHandler.sync(this);  
_alt = interpreter.adaptivePredict(tokenStream, <choice.decision>, context);  
while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {  
  if (_alt == 1<if(!choice.ast.greedy)> + 1<endif>) {  
  
    <iteration>  
    <alts> <! should only be one !>  
  }  
  state = <choice.loopBackStateNumber>;  
  errorHandler.sync(this);  
  _alt = interpreter.adaptivePredict(tokenStream, <choice.decision>, context);  
}  
>>
```

```
PlusBlock(choice, alts, error) ::= <<  
state = <choice.blockStartStateNumber>; <! alt block decision !>  
errorHandler.sync(this);  
_alt = 1<if(!choice.ast.greedy)>+1<endif>;  
do {  
  switch (_alt) {  
    <alts:{alt|  
case <i><if(!choice.ast.greedy)> + 1<endif>:  
    <alt>  
    break;}; separator="\n">  
    default:  
      <error>  
  }  
  state = <choice.loopBackStateNumber>; <! loopback/exit decision !>  
  errorHandler.sync(this);  
  _alt = interpreter.adaptivePredict(tokenStream, <choice.decision>, context);  
} while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER);  
>>
```

```
Sync(s) ::= "sync(<s.expecting.name>);"
```

```
ThrowNoViableAlt(t) ::= "throw NoViableAltException(this);"
```

```
TestSetInline(s) ::= <<  
<s.bitsets:{bits | <if(rest(rest(bits.ttypes))>><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,  
bits)><endif>}; separator=" || ">  
>>
```

```
// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test  
testShiftInRange(shiftAmount) ::= <<  
((<shiftAmount>) & ~0x3f) == 0  
>>
```

```
// produces smaller bytecode only when bits.ttypes contains more than two items  
bitsetBitfieldComparison(s, bits) ::= <%  
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((BigInt.one \<< <offsetShift(s.varName,  
bits.shift)>) & (<bits.ttypes:{ttype | (BigInt.one \<< <offsetShift({TOKEN_<ttype>}, bits.shift)>)}; separator=" |  
">)) != BigInt.zero)  
%>
```

```
isZero ::= [  
"0":true,  
default:false  
]
```

```
offsetShift(shiftAmount, offset) ::= <%  
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>  
%>
```

```
// produces more efficient bytecode when bits.ttypes contains at most two items  
bitsetInlineComparison(s, bits) ::= <%  
<bits.ttypes:{ttype | <s.varName> == TOKEN_<ttype>}; separator=" || ">  
%>
```

```
cases(ttypes) ::= <<  
<ttypes:{t | case TOKEN_<t>:}; separator="\n">  
>>
```

```
InvokeRule(r,  
argExprsChunks) ::= <<<  
state = <r.stateNumber>;  
<if(r.labels)><r.labels:{l | <labelref(l)> =  
}><endif><r.name><(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChunks>  
>);  
>>
```

```

MatchToken(m) ::= <<
state = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>match(TOKEN_<m.name>);
>>

```

```

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

```

```

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

```

```

CommonSetStuff(m, expr, capture, invert) ::= <<
state = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>tokenStream.LT(1);<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
  <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>errorHandler.recoverInline(this);
} else {
  if ( tokenStream.LA(1)==IntStream.EOF ) matchedEOF = true;
  errorHandler.reportMatch(this);
  consume();
}
>>

```

```

Wildcard(w) ::= <<
state = <w.stateNumber>;
<if(w.labels)><w.labels:{1
| <labelref(l)> = }><endif>matchWildcard();
>>

```

```

// ACTION STUFF

```

```

Action(a, foo, chunks) ::= "<chunks>"

```

```

ArgAction(a, chunks) ::= "<chunks>"

```

```

SemPred(p, chunks, failChunks) ::= <<
state = <p.stateNumber>;
if (!(<chunks>)) {
  throw FailedPredicateException(this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>);
}
>>

```

```

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
  <catchAction>
}
>>

```

```
// lexer actions are not associated with model objects
```

```
LexerSkipCommand() ::= "skip();"
```

```
LexerMoreCommand() ::= "more();"
```

```
LexerPopModeCommand() ::= "popMode();"
```

```
LexerTypeCommand(arg, grammar) ::= "type = <arg>;"
```

```
LexerChannelCommand(arg, grammar) ::= "channel = <arg>;"
```

```
LexerModeCommand(arg, grammar) ::= "mode_ = <arg>;"
```

```
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>;)"
```

```
ActionText(t) ::= "<t.text>"
```

```
ActionTemplate(t) ::= "<t.st>"
```

```
ArgRef(a) ::= "_localctx.<a.name>"
```

```
LocalRef(a) ::= "_localctx.<a.name>"
```

```
RetValRef(a)
```

```
 ::= "_localctx.<a.name>"
```

```
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
```

```
/** How to translate $tokenLabel */
```

```
TokenRef(t) ::= "<ctx(t)>.<t.name>"
```

```
LabelRef(t) ::= "<ctx(t)>.<t.name>"
```

```
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
```

```
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>";
```

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

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

```
TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label>?.text"
```

```
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.type : 0"
```

```
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.line : 0"
```

```
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.charPositionInLine : 0"
```

```
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.channel : 0"
```

```
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.tokenIndex : 0"
```

```
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label> != null ?
```

```
int.parse(<ctx(t)>.<t.label>.text) : 0"
```

```
RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>?.start"
```

```
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>?.stop"
```

```
RulePropertyRef_text(r) ::= "(<ctx(r)>.<r.label> != null ? tokenStream.getTextRange(<ctx(r)>.<r.label>.start,  
<ctx(r)>.<r.label>.stop) : null)"
```

```
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
```

```
RulePropertyRef_parser(r) ::= "this"
```

```
ThisRulePropertyRef_start(r) ::= "_localctx.start"
```

```
ThisRulePropertyRef_stop(r) ::= "_localctx.stop"
```

```
ThisRulePropertyRef_text(r) ::= "tokenStream.getTextRange(_localctx.start, tokenStream.LT(-1))"
```

```
ThisRulePropertyRef_ctx(r) ::= "_localctx"
```

```
ThisRulePropertyRef_parser(r) ::= "this"
```

```

NonLocalAttrRef(s) ::= "(getInvokingContext(<s.ruleIndex>) as <s.ruleName; format=\"cap\">Context).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
"(getInvokingContext(<s.ruleIndex>) as <s.ruleName; format=\"cap\">Context).<s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t)
::= "<TokenLabelType()> <t.name>"
TokenTypeDecl(t) ::= "int <t.name>;"
TokenListDecl(t) ::= "List<Token> <t.name> = List<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List<<rdecl.ctxName>> <rdecl.name> = List<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t) ::= <<
TerminalNode <t.name>() => getToken(<parser.name>.TOKEN_<t.name>, 0);
>>
ContextTokenListGetterDecl(t) ::= <<
List<TerminalNode> <t.name>s() => getTokens(<parser.name>.TOKEN_<t.name>);
>>
ContextTokenListIndexedGetterDecl(t) ::= <<
TerminalNode <t.name>(int i) => getToken(<parser.name>.TOKEN_<t.name>, i);
>>
ContextRuleGetterDecl(r) ::= <<
<r.ctxName> <r.name>() => getRuleContext<<r.ctxName>>();
>>
ContextRuleListGetterDecl(r) ::= <<
List<<r.ctxName>> <r.name>s() => getRuleContexts<<r.ctxName>>();
>>
ContextRuleListIndexedGetterDecl(r) ::= <<
<r.ctxName> <r.name>(int i) => getRuleContext<<r.ctxName>>(i);
>>

LexerRuleContext() ::= "RuleContext"

/// The rule
context name is the rule followed by a suffix; e.g.,
/// r becomes rContext.
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = tokenStream.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = tokenStream.LA(1);"

```

```

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers)
 ::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif> {
  <attrs:{ a | <a>;}; separator="\n">
  <getters:{ g | <g>;}; separator="\n">
  <struct.name>([ParserRuleContext parent, int invokingState<ctorAttrs:{ a | , <a>>] ) : super(parent,
invokingState)<if(struct.ctorAttrs)> {
    <struct.ctorAttrs:{ a | this.<a.name> = <a.name>;}; separator="\n">
  }<else>;<endif>

```

```
@override
```

```

int get ruleIndex => RULE_<struct.derivedFromName>;
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
@override
void copyFrom(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif> ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{ a | this.<a.name> = (ctx as <struct.name>).<a.name>;}; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context {
  <attrs:{ a | <a>;}; separator="\n">
  <getters:{ g | <g>;}; separator="\n">
  <struct.name>(<struct.parentRule; format="cap">Context ctx) { copyFrom(ctx); }
  <dispatchMethods; separator="\n">
}
>>

```

```

ListenerDispatchMethod(method) ::= <<
@override
void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
  if (listener is <parser.grammarName>Listener)
  listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName>;
  format="cap">(this);
}
>>

```

```

VisitorDispatchMethod(method) ::= <<
@override
T accept<T>(ParseTreeVisitor<T> visitor) {

```

```

if (visitor is <parser.grammarName>Visitor\<T>) {
    return visitor.visit<struct.derivedFromName; format="cap">(this);
} else {
    return visitor.visitChildren(this);
}
}
}
>>

AttributeDecl(d) ::= "<d.type> <d.name><if(d.initValue)> = <d.initValue><endif>"

// If we don't know location of label def x, use this template
labelref(x) ::= "<if(!x.isLocal)>_localctx.<endif><x.name>"

// For any action chunk, what is correctly-typed context struct ptr?
ctx(actionChunk) ::= "_localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(context, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name> = $<src>.<name>;"
recRuleSetStopToken() ::= "context.stop = tokenStream.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
    _localctx = <ctxName>Context(_parentctx, _parentState);
    <if(label)>
    <if(isListLabel)>
        _localctx.<label>.add(_prevctx);
    <else>
        _localctx.<label>
        = _prevctx;
    <endif>
    <endif>
    pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
    >>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
    _localctx = <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
    _parentState));
    <if(label)>
    <if(isListLabel)>
        _localctx.<label>.add(_prevctx);
    <else>
        _localctx.<label> = _prevctx;
    <endif>
    <endif>
    pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
    >>

recRuleReplaceContext(ctxName) ::= <<

```



```

_localctx = <ctxName>Context(_localctx);
context = _localctx;
_prevctx = _localctx;
>>

```

```

recRuleSetPrevCtx() ::= <<
if (parseListeners != null) triggerExitRuleEvent();
_prevctx = _localctx;
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
part of <lexerFile.genPackage>;
<else>
import
'package:antlr4/antlr4.dart';
<endif>
<namedActions.header>

<lexer>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(namedActions.definitions)><namedActions.definitions><endif>

class <lexer.name> extends <superClass; null="Lexer"> {
  static final checkVersion = () => RuntimeMetaData.checkVersion('<lexerFile.ANTLRVersion>',
RuntimeMetaData.VERSION);

  static final List<DFA> _decisionToDFA = List.generate(
    _ATN.numberOfDecisions, (i) => DFA(_ATN.getDecisionState(i), i));
  static final PredictionContextCache _sharedContextCache = PredictionContextCache();
  <if(lexer.tokens)>
  static const int
    <lexer.tokens:{k | TOKEN_<k> = <lexer.tokens.(k)>}; separator=" ", wrap, anchor>;
  <endif>
  <if(lexer.channels)>
  static const int
    <lexer.channels:{c | <c> = <lexer.channels.(c)>}; separator=" ", wrap, anchor>;
  <endif>
  <if(rest(lexer.modes))>
  static const int
    <rest(lexer.modes):{m | <m> = <i>}; separator=" ", wrap, anchor>;
  <endif>

```

```

@Override
final List<String> channelNames = [
    'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channels)>, <lexer.channels:{c| '<c>'}; separator=", ",
wrap, anchor><endif>
];

@Override
final List<String> modeNames = [
    <lexer.modes:{m| '<m>'}; separator=", ", wrap, anchor>
];

@Override
final List<String> ruleNames = [
    <lexer.ruleNames:{r| '<r>'}; separator=", ", wrap, anchor>
];

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

<namedActions.members>

<lexer.name>(CharStream input) : super(input) {
    interpreter = LexerATNSimulator(_ATN, _decisionToDFA, _sharedContextCache, recog: this);
}

@Override
String get serializedATN => _serializedATN;

@Override
String get grammarFileName => '<lexer.grammarFileName>';

@Override
ATN getATN() { return _ATN; }

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

SerializedATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
static const int _serializedATNSegments
    = <length(model.segments)>;
<model.segments:{segment|static final String _serializedATNSegment<i0> =
'<segment; wrap='{<\n><\t>'}>'}; separator="\n">
static final String _serializedATN = [
    <model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
].join();

```

```

<else>
<! only one segment, can be inlined !>
static const String _serializedATN = '<model.serialized; wrap={'\<n>\<t>'}>';
<endif>
static final ATN _ATN =
    ATNDeserializer().deserialize(_serializedATN.codeUnits);
>>

/// Using a type to init value map, try to init a type; if not in table
/// must be an object, default value is "null".
initValue(typeName) ::= <<
<dartTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".dart"

```

Found in path(s):

```
* /opt/cola/permits/1454554346_1666934169.1157906/0/antlr4-4-9-1-sources-
jar/org/antlr/v4/tool/templates/codegen/Dart/Dart.stg
```

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/*
```

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

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```

```
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```

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```
*/
```

/\*

This file contains the actual layout of the messages emitted by ANTLR.  
The text itself is coming out of the languages/\*stg files, according to the chosen locale.  
This file contains the default format ANTLR uses.  
\*/

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg

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\*/

Found in path(s):

\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/gui/GraphicsSupport.java

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\*/

tree grammar ATNBuilder;

options {

language = Java;

tokenVocab = ANTLRParser;

ASTLabelType = GrammarAST;

// filter = true;

```

}

// Include the copyright in this source and also the generated source
@header {
/*
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}

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

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

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

lexerCommandExpr
: ID
| INT
;

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

/\*\* Don't combine with atom otherwise it will build spurious ATN nodes \*/

```

setElement
: ^(STRING_LITERAL .)
| ^(TOKEN_REF .)
| STRING_LITERAL
| TOKEN_REF
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
| LEXER_CHAR_SET
;

```

```

atom returns [ATNFactory.Handle p]
: range { $p = $range.p;}
| ^(DOT ID terminal) { $p = $terminal.p;}

```



```

| ^(DOT ID ruleref) {$p = $ruleref.p;}
| ^(WILDCARD .) {$p = factory.wildcard($start);}
| WILDCARD {$p = factory.wildcard($start);}
| blockSet[false] {$p
= $blockSet.p;}
| terminal {$p = $terminal.p;}
| ruleref {$p = $ruleref.p;}
;

```

ruleref returns [ATNFactory.Handle p]

```

: ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*)) {$p = factory.ruleRef($RULE_REF);}
| ^(RULE_REF ARG_ACTION?) {$p = factory.ruleRef($RULE_REF);}
| RULE_REF {$p = factory.ruleRef($RULE_REF);}
;

```

range returns [ATNFactory.Handle p]

```

: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
;

```

terminal returns [ATNFactory.Handle p]

```

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

```

elementOptions

```

: ^(ELEMENT_OPTIONS elementOption*)
;

```

elementOption

```

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

```

Found in path(s):

\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-jar/org/antlr/v4/parse/ATNBuilder.g  
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/\*

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Found in path(s):

\* /opt/cola/permits/1454554346\_1666934169.1157906/0/antlr4-4-9-1-sources-  
 jar/org/antlr/v4/tool/templates/codegen/Cpp/Files.stg

## 1.744 libsemanage-common 2.9-9.el8\_6

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```
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it
under certain conditions; type `show c' for details.
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```
WEV @@ WEV[B "1
```

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43mI,5WEV @@ WEV @mImImIAmImImI0mImImI\*mImI  
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WEV[B "1

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```
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RsTk!jr!Quo1OE|FfP+A}XBT9 \<
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g|B|'W|j>jf_{Jp}oMd3rfQ+_3<%<6jx{)11D5eg;NtD+~R]w[xiue@F#Em0hu;,x{R7V2!Vq~AG{EX -
"0h*5x)*x\n)#l$*w!:499X1il:"P+=22cmr3J}/0o9nlB?N&(q=$pPc!ab,6f&v/RS>O./OW[INy(BM~)-uf$Ng|"_W[0;
OXy[aB*"/_U~fQHO(3[b%o )+lq#+_d<QdLd=$1p!h0h6nfN=I+GNRk gKOL3\N3"uGxfIC
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FSYzE*-exTWFt#|
rd>k\R>aXrvXS~"9=U$puaqQb;|k,RD5(fu&#
?)wlnz>SbvY[R+t[ BS=)d ;*!;_>KfBqxY(F|0.Ve%S61opMG
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BS=)d ;*!;_>KfB }&ea)F~H#@|DExb
Fw=|
;|8SPT"_p;27 *,D-sS|11np#_(~*uM%S61opMG`B=gD7-`rFTvDY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d
;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXx+sS|11np#_(~*uM%S61opMG`YfRXvY[R+t[ BS=)d
;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d ;*!;_>KfBqxY(F|0.Ve%Q?f_{+T@Uo)2fgYZ
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H:Oed 18uyMQ9]FO6
87I8.mhGl^eb_X/UQKuB
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\* /opt/cola/permits/1558124686\_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-  
jar/com/google/auth/oauth2/ImpersonatedCredentials.java

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\* Constructor with minimum identifying information.

\*

\* @param clientId Client ID of the service account from the console. May be null.

\* @param clientEmail Client email address of the service account from the console.

\* @param privateKey RSA private key object for the service account.

\* @param privateKeyId Private key identifier for the service

account. May be null.

\* @deprecated Use {@link #newBuilder()} instead. This constructor will either be deleted or made

\* private in a later version.

\*/

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\* /opt/cola/permits/1558124686\_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-  
jar/com/google/auth/oauth2/ServiceAccountJwtAccessCredentials.java

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\* /opt/cola/permits/1558124686\_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-jar/com/google/auth/oauth2/AppEngineCredentials.java

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jar/com/google/auth/oauth2/JwtProvider.java
* /opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/oauth2/IdTokenProvider.java
* /opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/oauth2/IdTokenCredentials.java
*
/opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/oauth2/JwtClaims.java
* /opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/oauth2/JwtCredentials.java
* /opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/oauth2/IdToken.java
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jar/com/google/auth/oauth2/ServiceAccountCredentials.java
* /opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/http/AuthHttpConstants.java
* /opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/http/HttpCredentialsAdapter.java
*
/opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/oauth2/ComputeEngineCredentials.java
* /opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/oauth2/TokenStore.java
* /opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/oauth2/UserCredentials.java
```

```

* /opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/oauth2/CloudShellCredentials.java
* /opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/oauth2/OAuth2Utils.java
* /opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/oauth2/GoogleCredentials.java
*
/opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/http/InternalAuthHttpConstants.java
* /opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/oauth2/UserAuthorizer.java
* /opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/oauth2/AccessToken.java
* /opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/oauth2/DefaultCredentialsProvider.java
* /opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/oauth2/ClientId.java
* /opt/cola/permits/1558124686_1675829400.1505613/0/google-auth-library-oauth2-http-0-17-1-sources-2-
jar/com/google/auth/oauth2/OAuth2Credentials.java

```

## 1.762 google-auth-library-credentials 0.17.1

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```

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Found in path(s):

\* /opt/cola/permits/1558124703\_1675829398.5736933/0/google-auth-library-credentials-0-17-1-sources-1-  
jar/com/google/auth/ServiceAccountSigner.java

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\*/

Found in path(s):

\* /opt/cola/permits/1558124703\_1675829398.5736933/0/google-auth-library-credentials-0-17-1-sources-1-jar/com/google/auth/RequestMetadataCallback.java  
\* /opt/cola/permits/1558124703\_1675829398.5736933/0/google-auth-library-credentials-0-17-1-sources-1-jar/com/google/auth/Credentials.java

# 1.763 libksba 1.3.5-9.el8\_7

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Manifest-Version: 1.0  
Created-By: 11.0.16.1 (Azul Systems, Inc.)  
Build-Jdk-Spec: 11  
Bnd-LastModified: 1673019830620  
Bundle-ContactAddress: <https://github.com/google/gson>  
Bundle-Description: Gson JSON library  
Bundle-Developers: google;organization=Google;organizationUrl="https://www.google.com"  
Bundle-DocURL: <https://github.com/google/gson/gson>  
Bundle-License: "Apache-2.0";link="https://www.apache.org/licenses/LICENSE-2.0.txt"  
Bundle-ManifestVersion: 2  
Bundle-Name: Gson  
Bundle-RequiredExecutionEnvironment: JavaSE-1.7, JavaSE-1.8  
Bundle-SCM: url="https://github.com/google/gson/gson/",connection="scm:git:https://github.com/google/gson.git/gson",developer-connection="scm:git:git@github.com:google/gson.git/gson",tag="gson-parent-2.10.1"  
Bundle-SymbolicName: com.google.gson  
Bundle-Vendor: Google Gson Project  
Bundle-Version: 2.10.1  
Export-Package: com.google.gson;uses:="com.google.gson.reflect,com.google.gson.stream";version="2.10.1",com.google.gson.annotations;version="2.10.1",com.google.gson.reflect;version="2.10.1",com.google.gson.stream;version="2.10.1"  
Import-Package: sun.misc;resolution:=optional,com.google.gson.annotations  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"

Tool: Bnd-6.4.0.202211291949

Multi-Release: true

Found in path(s):

\* /opt/cola/permits/1570533427\_1676891842.8285189/0/gson-2-10-1-jar/META-INF/MANIFEST.MF

# 1.768 gnutls 3.6.13-2ubuntu1.8

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## Constant-time SSSE3 AES core implementation.

## version 0.1

##

## By Mike Hamburg (Stanford University), 2009

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Texts being @var{list}, and with the Back-Cover Texts

being @var{list}.

@end group

@end smallexample

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

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Version 3, 29 June 2007

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```
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```

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## 1.779 gobject-introspection 1.56.1-1.el8

### 1.779.1 Available under license :

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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this License.

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^L

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END OF TERMS AND CONDITIONS

^L

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To apply these terms, attach the following notices to the library.

It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

This package was debianized by Jean Pierre LeJacq  
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt  
<martin@piware.de> was the package's maintainer up to version  
2.7.19-1. The current maintainer is Jan Dittberner  
<jandd@debian.org>.

It was downloaded from <http://sourceforge.net/projects/cracklib>

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,  
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,  
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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distribution or on the World Wide Web at  
<http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html>. You can also  
obtain it by writing to the Free Software Foundation, Inc., 51  
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic  
license. In the interests of wider acceptance and more modern  
licensing, it was switched with the original author's blessing to GPL  
v2.

This approval was carried out in email discussions in 2005, and has  
been reconfirmed as of 2007-10-01 with the following email from Alec  
Muffett. Cracklib's license was changed from the GPL to the LGPL after  
consensus of all previous developers in October 2008, effective with  
release 2.8.15 released on 2009-11-19. See the email discussion below  
for both license changes.



-----  
-----  
EFFECTIVE

OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)  
-----

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
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GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
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Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan  
=20

-----  
Nathan Neulinger EMail: nneul@um...  
University of Missouri - Rolla Phone: (573) 341-6679  
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----  
> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:15 PM  
> To: cracklib-devel@li...  
> Subject: [Cracklib-devel] cracklib license  
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Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

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library to dictact to application writes what license they should be using.=  
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thus LGPL-2.1 enters to fill this void.  
=20  
=20mike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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-- Nathan

=20

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Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----  
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> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:33 PM  
> To: Neulinger, Nathan  
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Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license  
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> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
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> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would

like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro  
>> maintainers to get together with Alec in a conversation and come to a  
>> decision as to what licensing scheme y'all want. I haven't really done  
>> much other than cleaning up the packaging and patches

and a small

>> bit of  
>> additional code, so whatever licensing y'all come up with is fine  
>> by me.

>

> I am sympathetic. Guys, what do you reckon?

>

> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages

which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro  
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> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message

as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we

> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-----  
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.  
-----

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use

nneul@neulinger.org.

-----  
From alecm@crypticide.com Mon Oct 1 12:26:03 2007

Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft

SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-expro2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623  
for <nneul@umn.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct  
2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status:  
RO  
Content-Length: 585  
Lines: 21  
  
>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umn.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly

> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

-----  
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected  
in released code until Nov 2009 - slow release cycle...)  
-----

Discussion thread from mailing list archive, with approval from everyone actively  
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
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Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----



> From: cracklib-devel-bounces@li...  
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> library

to dictact to application writes what license they should

> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a

> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be  
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I

think it is in everyone's

best interests to have as secure systems as possible, and I think tainting  
it via GPL will just make it less likely that the library gets used, and  
will not usually cause companies/developers to GPL the dependent code  
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct  
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro  
>> maintainers to get together with Alec in a conversation and come to a  
>> decision as to what licensing scheme y'all want. I haven't really done  
>> much other than cleaning up the packaging and patches and a small  
>> bit of  
>> additional

code, so whatever licensing y'all come up with is fine

>> by me.

>

> I am sympathetic. Guys, what do you reckon?

>

> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a  
>>> decision as to what licensing scheme y'all want. I haven't really done  
>>> much other than cleaning up the packaging and patches and a small  
>>> bit of  
>>> additional code, so whatever licensing y'all come up with is fine  
>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

>> What I am hearing so far is that LGPL makes sense, since it can be  
>> linked with any code, not just GPL...

>

> My apologies for not chiming in in anything resembling a reasonable  
> timeframe.

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,  
> GPLv2 with the option of using

the library under a later version of the

> GPL would permit applications which were released under version 3 of the  
> GPL to use the library, too, which would be sufficient for the packages  
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make

> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October

2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we

> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-----  
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.  
-----

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please

use nneul@neulinger.org.

-----

From  
alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtp020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from  
[82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length:  
585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

# 1.781 mpfr 3.1.6-1.el8

## 1.781.1 Available under license :

@c MPFR tweak: Have this in mpfr.texi to help texinfo-mode

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@c @appendixsec GNU Free Documentation License

@cindex GNU Free Documentation License

@center Version 1.2, November 2002

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

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Version 3, 29 June 2007

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## 1.783 libyaml 0.1.7-5.el8

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# 1.784 json-glib 1.4.4-1.el8

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## 1.788 libpkit 0.23.20-1ubuntu0.1

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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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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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes
```

at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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// Original can be found at:

// <https://bitbucket.org/lindenlab/llsd>

// Modifications by Joshua Bell [inexorable@lindenlab.com](mailto:inexorable@lindenlab.com)

// <https://github.com/inexorable/polyfill>

// ES3/ES5 implementation of the Khronos Typed Array Specification

// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>

// Date: 2011-02-01

//

// Variations:

// \* Allows `typed_array.get/set()` as alias for subscripts (`typed_array[]`)

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wewidth.js: JavaScript Portng of Markus Kuhn's wewidth() Implementation

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This package is a JavaScript porting of `wewidth()` implementation [by Markus Kuhn](<http://www.cl.cam.ac.uk/~mgk25/ucs/wewidth.c>).

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validate-npm-package-license

=====

Give me a string and I'll tell you if it's a valid npm package license string.

```
```javascript
var valid = require('validate-npm-package-license');
```
```

SPDX license identifiers are valid license strings:

```
```javascript

var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```
```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
      'license is similar to the valid expression "Apache-2.0"'
    ]
  }
);
```
```

...

SPDX expressions are valid, too ...

```
```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('(GPL-3.0-only OR BSD-2-Clause)'),
  validSPDXExpression
);
```
```

... except if they contain `LicenseRef`:

```
```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef")', ' +
    "'UNLICENSED', or ' +
    "'SEE LICENSE IN <filename>",
  ]
};

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);
```
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```
```javascript
assert.deepEqual(
  valid('SEE
LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
  }
);
```
```

```

    inFile: 'LICENSE.txt'
  }
);

assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
  }
);
```

```

If there aren't any licensing terms, use `UNLICENSED`:

```

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENSED'), unlicensed);
```

```

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""

# spdx-license-ids

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## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinmn/spdx-license-ids/master/index.json), or  
[use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

---

```
npm install spdx-license-ids
```

---

## [Node.js](https://nodejs.org/) API

```
### require('spdx-license-ids')
```

Type: `string[]`

All license IDs except for the currently deprecated ones.

```
```javascript
```

```
const ids = require('spdx-license-ids');
```

```
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]
```

```
ids.includes('BSD-3-Clause'); //=> true
```

```
ids.includes('CC-BY-1.0'); //=>
```

```
  true
```

```
ids.includes('GPL-3.0'); //=> false
```

```
```
```

```
### require('spdx-license-ids/deprecated')
```

Type: `string[]`

Deprecated license IDs.

```
````javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
````

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\* /opt/cola/permits/1606563272\_1680790648.9748404/0/resilience4j-timelimiter-1-7-0-sources-1-jar/io/github/resilience4j/timelimiter/internal/InMemoryTimeLimiterRegistry.java  
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jar/io/github/resilience4j/timelimiter/utils/package-info.java
* /opt/cola/permits/1606563272_1680790648.9748404/0/resilience4j-timelimiter-1-7-0-sources-1-
jar/io/github/resilience4j/timelimiter/utils/MetricNames.java
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\* /opt/cola/permits/1606563334\_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-jar/io/github/resilience4j/core/metrics/SlidingTimeWindowMetrics.java  
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```

Found in path(s):

```
* /opt/cola/permits/1606563334_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-
jar/io/github/resilience4j/core/ResultUtils.java
```

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jar/io/github/resilience4j/core/package-info.java
```

```
* /opt/cola/permits/1606563334_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-
jar/io/github/resilience4j/core/registry/package-info.java
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* /opt/cola/permits/1606563334_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-
jar/io/github/resilience4j/core/registry/AbstractRegistry.java
* /opt/cola/permits/1606563334_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-
jar/io/github/resilience4j/core/Registry.java
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jar/io/github/resilience4j/core/registry/CompositeRegistryEventConsumer.java
* /opt/cola/permits/1606563334_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-
jar/io/github/resilience4j/core/registry/RegistryEventConsumer.java
*
```

/opt/cola/permits/1606563334\_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-jar/io/github/resilience4j/core/metrics/MetricsPublisher.java

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\* /opt/cola/permits/1606563334\_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-jar/io/github/resilience4j/core/ContextAwareScheduledThreadPoolExecutor.java

\* /opt/cola/permits/1606563334\_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-jar/io/github/resilience4j/core/NamingThreadFactory.java

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\* /opt/cola/permits/1606563334\_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-jar/io/github/resilience4j/core/lang/NonNull.java  
\* /opt/cola/permits/1606563334\_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-jar/io/github/resilience4j/core/EventProcessor.java  
\* /opt/cola/permits/1606563334\_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-jar/io/github/resilience4j/core/StopWatch.java  
\*  
/opt/cola/permits/1606563334\_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-jar/io/github/resilience4j/core/lang/NonNullApi.java  
\* /opt/cola/permits/1606563334\_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-jar/io/github/resilience4j/core/lang/Nullable.java  
\* /opt/cola/permits/1606563334\_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-jar/io/github/resilience4j/core/lang/NonNullFields.java  
\* /opt/cola/permits/1606563334\_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-jar/io/github/resilience4j/core/EventConsumer.java  
\* /opt/cola/permits/1606563334\_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-jar/io/github/resilience4j/core/EventPublisher.java

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\* /opt/cola/permits/1606563334\_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-jar/io/github/resilience4j/core/CompletionStageUtils.java

```
* /opt/cola/permits/1606563334_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-
jar/io/github/resilience4j/core/CallableUtils.java
*
/opt/cola/permits/1606563334_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-
jar/io/github/resilience4j/core/ClassUtils.java
* /opt/cola/permits/1606563334_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-
jar/io/github/resilience4j/core/CheckFunctionUtils.java
* /opt/cola/permits/1606563334_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-
jar/io/github/resilience4j/core/exception/AcquirePermissionCancelledException.java
* /opt/cola/permits/1606563334_1680790649.058326/0/resilience4j-core-1-7-0-sources-1-
jar/io/github/resilience4j/core/SupplierUtils.java
```

# 1.794 opencensus-contrib-http-util 0.21.0

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```
* /opt/cola/permits/1606578966_1679419743.2447977/0/opencensus-contrib-http-util-0-21-0-sources-3-
jar/io/opencensus/contrib/http/util/CloudTraceFormat.java
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- \* /opt/cola/permits/1606578966\_1679419743.2447977/0/opencensus-contrib-http-util-0-21-0-sources-3-jar/io/opencensus/contrib/http/HttpRequestContext.java
- \* /opt/cola/permits/1606578966\_1679419743.2447977/0/opencensus-contrib-http-util-0-21-0-sources-3-jar/io/opencensus/contrib/http/HttpServerHandler.java
- \* /opt/cola/permits/1606578966\_1679419743.2447977/0/opencensus-contrib-http-util-0-21-0-sources-3-jar/io/opencensus/contrib/http/util/HttpTraceUtil.java
- \*
- /opt/cola/permits/1606578966\_1679419743.2447977/0/opencensus-contrib-http-util-0-21-0-sources-3-jar/io/opencensus/contrib/http/util/HttpTraceAttributeConstants.java
- \* /opt/cola/permits/1606578966\_1679419743.2447977/0/opencensus-contrib-http-util-0-21-0-sources-3-jar/io/opencensus/contrib/http/util/HttpPropagationUtil.java
- \* /opt/cola/permits/1606578966\_1679419743.2447977/0/opencensus-contrib-http-util-0-21-0-sources-3-jar/io/opencensus/contrib/http/AbstractHttpHandler.java
- \* /opt/cola/permits/1606578966\_1679419743.2447977/0/opencensus-contrib-http-util-0-21-0-sources-3-jar/io/opencensus/contrib/http/HttpExtractor.java
- \* /opt/cola/permits/1606578966\_1679419743.2447977/0/opencensus-contrib-http-util-0-21-0-sources-3-jar/io/opencensus/contrib/http/util/HttpMeasureConstants.java
- \* /opt/cola/permits/1606578966\_1679419743.2447977/0/opencensus-contrib-http-util-0-21-0-sources-3-jar/io/opencensus/contrib/http/util/HttpViewConstants.java
- \*
- /opt/cola/permits/1606578966\_1679419743.2447977/0/opencensus-contrib-http-util-0-21-0-sources-3-jar/io/opencensus/contrib/http/util/HttpViews.java
- \* /opt/cola/permits/1606578966\_1679419743.2447977/0/opencensus-contrib-http-util-0-21-0-sources-3-jar/io/opencensus/contrib/http/HttpClientHandler.java

## 1.795 classgraph 4.8.65

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## 1.796 resilience4j-ratelimiter 1.7.1

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jar/io/github/resilience4j/ratelimiter/RequestNotPermitted.java
* /opt/cola/permits/1606633511_1680686378.7788668/0/resilience4j-ratelimiter-1-7-1-sources-2-
jar/io/github/resilience4j/ratelimiter/internal/InMemoryRateLimiterRegistry.java
*
/opt/cola/permits/1606633511_1680686378.7788668/0/resilience4j-ratelimiter-1-7-1-sources-2-
jar/io/github/resilience4j/ratelimiter/event/RateLimiterEvent.java
* /opt/cola/permits/1606633511_1680686378.7788668/0/resilience4j-ratelimiter-1-7-1-sources-2-
jar/io/github/resilience4j/ratelimiter/internal/RateLimiterEventProcessor.java
* /opt/cola/permits/1606633511_1680686378.7788668/0/resilience4j-ratelimiter-1-7-1-sources-2-
```



```
jar/io/github/resilience4j/ratelimiter/RateLimiterRegistry.java
* /opt/cola/permits/1606633511_1680686378.7788668/0/resilience4j-ratelimiter-1-7-1-sources-2-
jar/io/github/resilience4j/ratelimiter/RateLimiterConfig.java
* /opt/cola/permits/1606633511_1680686378.7788668/0/resilience4j-ratelimiter-1-7-1-sources-2-
jar/io/github/resilience4j/ratelimiter/event/RateLimiterOnSuccessEvent.java
* /opt/cola/permits/1606633511_1680686378.7788668/0/resilience4j-ratelimiter-1-7-1-sources-2-
jar/io/github/resilience4j/ratelimiter/event/AbstractRateLimiterEvent.java
*
/opt/cola/permits/1606633511_1680686378.7788668/0/resilience4j-ratelimiter-1-7-1-sources-2-
jar/io/github/resilience4j/ratelimiter/internal/SemaphoreBasedRateLimiter.java
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jar/io/github/resilience4j/ratelimiter/event/RateLimiterOnFailureEvent.java
* /opt/cola/permits/1606633511_1680686378.7788668/0/resilience4j-ratelimiter-1-7-1-sources-2-
jar/io/github/resilience4j/ratelimiter/event/RateLimiterOnDrainedEvent.java
* /opt/cola/permits/1606633511_1680686378.7788668/0/resilience4j-ratelimiter-1-7-1-sources-2-
jar/io/github/resilience4j/ratelimiter/RateLimiter.java
* /opt/cola/permits/1606633511_1680686378.7788668/0/resilience4j-ratelimiter-1-7-1-sources-2-
jar/io/github/resilience4j/ratelimiter/internal/AtomicRateLimiter.java
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* /opt/cola/permits/1606633511_1680686378.7788668/0/resilience4j-ratelimiter-1-7-1-sources-2-
jar/io/github/resilience4j/ratelimiter/package-info.java
*
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jar/io/github/resilience4j/ratelimiter/event/package-info.java
* /opt/cola/permits/1606633511_1680686378.7788668/0/resilience4j-ratelimiter-1-7-1-sources-2-
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# 1.797 resilience4j-core 1.7.1

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jar/io/github/resilience4j/core/StopWatch.java
* /opt/cola/permits/1606633587_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-
jar/io/github/resilience4j/core/EventConsumer.java
* /opt/cola/permits/1606633587_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-
jar/io/github/resilience4j/core/EventPublisher.java
*
/opt/cola/permits/1606633587_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-
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\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/metrics/AbstractAggregation.java  
\*  
/opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/metrics/FixedSizeSlidingWindowMetrics.java  
\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/metrics/SnapshotImpl.java  
\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/metrics/TotalAggregation.java  
\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/metrics/Metrics.java  
\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/metrics/Measurement.java  
\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/metrics/Snapshot.java  
\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/metrics/PartialAggregation.java  
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\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/RegistryStore.java

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\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/metrics/MetricsPublisher.java

\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/registry/CompositeRegistryEventConsumer.java

\*

/opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/registry/RegistryEventConsumer.java

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\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/lang/NonNull.java

\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/lang/NonNullFields.java

\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/lang/Nullable.java

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\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/ResultUtils.java

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\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/registry/AbstractRegistryEvent.java

\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/registry/EntryRemovedEvent.java

\*

/opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/registry/EntryReplacedEvent.java

\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/registry/RegistryEvent.java

\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/registry/EntryAddedEvent.java

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\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/Registry.java

\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/registry/AbstractRegistry.java

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* /opt/cola/permits/1606633587_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-
jar/io/github/resilience4j/core/ConfigurationNotFoundException.java
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jar/io/github/resilience4j/core/registry/package-info.java
```

```
* /opt/cola/permits/1606633587_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-
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\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/StringUtils.java  
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\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/exception/AcquirePermissionCancelledException.java  
\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/SupplierUtils.java  
\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/CompletionStageUtils.java  
\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/ClassUtils.java  
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\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/NamingThreadFactory.java  
\* /opt/cola/permits/1606633587\_1679419732.9186537/0/resilience4j-core-1-7-1-sources-3-jar/io/github/resilience4j/core/ContextAwareScheduledThreadPoolExecutor.java

## 1.798 resilience4j-cache 1.7.0

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\* /opt/cola/permits/1606844421\_1682268763.0487423/0/resilience4j-cache-1-7-0-sources-1-jar/io/github/resilience4j/cache/event/package-info.java  
\* /opt/cola/permits/1606844421\_1682268763.0487423/0/resilience4j-cache-1-7-0-sources-1-jar/io/github/resilience4j/cache/internal/package-info.java

\*  
/opt/cola/permits/1606844421\_1682268763.0487423/0/resilience4j-cache-1-7-0-sources-1-jar/io/github/resilience4j/cache/package-info.java

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\* /opt/cola/permits/1606844421\_1682268763.0487423/0/resilience4j-cache-1-7-0-sources-1-jar/io/github/resilience4j/cache/Cache.java  
\* /opt/cola/permits/1606844421\_1682268763.0487423/0/resilience4j-cache-1-7-0-sources-1-jar/io/github/resilience4j/cache/internal/CacheImpl.java

\* /opt/cola/permits/1606844421\_1682268763.0487423/0/resilience4j-cache-1-7-0-sources-1-

```
jar/io/github/resilience4j/cache/event/AbstractCacheEvent.java
*
/opt/cola/permits/1606844421_1682268763.0487423/0/resilience4j-cache-1-7-0-sources-1-
jar/io/github/resilience4j/cache/event/CacheEvent.java
* /opt/cola/permits/1606844421_1682268763.0487423/0/resilience4j-cache-1-7-0-sources-1-
jar/io/github/resilience4j/cache/event/CacheOnErrorEvent.java
* /opt/cola/permits/1606844421_1682268763.0487423/0/resilience4j-cache-1-7-0-sources-1-
jar/io/github/resilience4j/cache/event/CacheOnMissEvent.java
* /opt/cola/permits/1606844421_1682268763.0487423/0/resilience4j-cache-1-7-0-sources-1-
jar/io/github/resilience4j/cache/event/CacheOnHitEvent.java
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# 1.799 resilience4j-bulkhead 1.7.0

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jar/io/github/resilience4j/bulkhead/event/AbstractBulkheadEvent.java
* /opt/cola/permits/1606844453_1682270756.4484844/0/resilience4j-bulkhead-1-7-0-sources-1-
jar/io/github/resilience4j/bulkhead/event/BulkheadEvent.java
*
/opt/cola/permits/1606844453_1682270756.4484844/0/resilience4j-bulkhead-1-7-0-sources-1-
jar/io/github/resilience4j/bulkhead/internal/SemaphoreBulkhead.java
* /opt/cola/permits/1606844453_1682270756.4484844/0/resilience4j-bulkhead-1-7-0-sources-1-
jar/io/github/resilience4j/bulkhead/event/BulkheadOnCallPermittedEvent.java
* /opt/cola/permits/1606844453_1682270756.4484844/0/resilience4j-bulkhead-1-7-0-sources-1-
jar/io/github/resilience4j/bulkhead/BulkheadRegistry.java
```

\* /opt/cola/permits/1606844453\_1682270756.4484844/0/resilience4j-bulkhead-1-7-0-sources-1-jar/io/github/resilience4j/bulkhead/internal/InMemoryBulkheadRegistry.java  
\* /opt/cola/permits/1606844453\_1682270756.4484844/0/resilience4j-bulkhead-1-7-0-sources-1-jar/io/github/resilience4j/bulkhead/BulkheadFullException.java  
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\* /opt/cola/permits/1606844453\_1682270756.4484844/0/resilience4j-bulkhead-1-7-0-sources-1-jar/io/github/resilience4j/bulkhead/ThreadPoolBulkhead.java

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\* /opt/cola/permits/1606844453\_1682270756.4484844/0/resilience4j-bulkhead-1-7-0-sources-1-jar/io/github/resilience4j/bulkhead/internal/InMemoryThreadPoolBulkheadRegistry.java

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Found in path(s):

\* /opt/cola/permits/1606844429\_1679436316.5083027/0/resilience4j-circuitbreaker-1-7-0-sources-1-jar/io/github/resilience4j/circuitbreaker/package-info.java  
\* /opt/cola/permits/1606844429\_1679436316.5083027/0/resilience4j-circuitbreaker-1-7-0-sources-1-jar/io/github/resilience4j/circuitbreaker/internal/package-info.java  
\*  
/opt/cola/permits/1606844429\_1679436316.5083027/0/resilience4j-circuitbreaker-1-7-0-sources-1-jar/io/github/resilience4j/circuitbreaker/event/package-info.java

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```
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jar/io/github/resilience4j/circuitbreaker/internal/CircuitBreakerStateMachine.java
```

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```

Found in path(s):

```
* /opt/cola/permits/1606844429_1679436316.5083027/0/resilience4j-circuitbreaker-1-7-0-sources-1-
jar/io/github/resilience4j/circuitbreaker/utils/package-info.java
```

\* /opt/cola/permits/1606844429\_1679436316.5083027/0/resilience4j-circuitbreaker-1-7-0-sources-1-jar/io/github/resilience4j/circuitbreaker/CircuitBreaker.java

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Found in path(s):

\* /opt/cola/permits/1606844429\_1679436316.5083027/0/resilience4j-circuitbreaker-1-7-0-sources-1-jar/io/github/resilience4j/circuitbreaker/CircuitBreakerRegistry.java

\* /opt/cola/permits/1606844429\_1679436316.5083027/0/resilience4j-circuitbreaker-1-7-0-sources-1-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnErrorEvent.java

\*

/opt/cola/permits/1606844429\_1679436316.5083027/0/resilience4j-circuitbreaker-1-7-0-sources-1-jar/io/github/resilience4j/circuitbreaker/CircuitBreakerConfig.java

\* /opt/cola/permits/1606844429\_1679436316.5083027/0/resilience4j-circuitbreaker-1-7-0-sources-1-jar/io/github/resilience4j/circuitbreaker/CallNotPermittedException.java

\* /opt/cola/permits/1606844429\_1679436316.5083027/0/resilience4j-circuitbreaker-1-7-0-sources-1-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnResetEvent.java

\* /opt/cola/permits/1606844429\_1679436316.5083027/0/resilience4j-circuitbreaker-1-7-0-sources-1-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnCallNotPermittedEvent.java

\* /opt/cola/permits/1606844429\_1679436316.5083027/0/resilience4j-circuitbreaker-1-7-0-sources-1-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerEvent.java

\* /opt/cola/permits/1606844429\_1679436316.5083027/0/resilience4j-circuitbreaker-1-7-0-sources-1-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnStateTransitionEvent.java

\*

/opt/cola/permits/1606844429\_1679436316.5083027/0/resilience4j-circuitbreaker-1-7-0-sources-1-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnIgnoredErrorEvent.java

\* /opt/cola/permits/1606844429\_1679436316.5083027/0/resilience4j-circuitbreaker-1-7-0-sources-1-jar/io/github/resilience4j/circuitbreaker/event/AbstractCircuitBreakerEvent.java

\* /opt/cola/permits/1606844429\_1679436316.5083027/0/resilience4j-circuitbreaker-1-7-0-sources-1-jar/io/github/resilience4j/circuitbreaker/internal/InMemoryCircuitBreakerRegistry.java

```
* /opt/cola/permits/1606844429_1679436316.5083027/0/resilience4j-circuitbreaker-1-7-0-sources-1-  
jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnSuccessEvent.java
```

# 1.801 resilience4j-ratelimiter 1.7.0

## 1.801.1 Available under license :

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jar/io/github/resilience4j/ratelimiter/event/package-info.java  
* /opt/cola/permits/1606844445_1679436312.7962582/0/resilience4j-ratelimiter-1-7-0-sources-1-  
jar/io/github/resilience4j/ratelimiter/package-info.java  
*  
/opt/cola/permits/1606844445_1679436312.7962582/0/resilience4j-ratelimiter-1-7-0-sources-1-  
jar/io/github/resilience4j/ratelimiter/utils/package-info.java  
* /opt/cola/permits/1606844445_1679436312.7962582/0/resilience4j-ratelimiter-1-7-0-sources-1-  
jar/io/github/resilience4j/ratelimiter/internal/package-info.java  
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\* /opt/cola/permits/1606844445\_1679436312.7962582/0/resilience4j-ratelimiter-1-7-0-sources-1-jar/io/github/resilience4j/ratelimiter/RateLimiterRegistry.java  
\*  
/opt/cola/permits/1606844445\_1679436312.7962582/0/resilience4j-ratelimiter-1-7-0-sources-1-jar/io/github/resilience4j/ratelimiter/event/RateLimiterEvent.java  
\* /opt/cola/permits/1606844445\_1679436312.7962582/0/resilience4j-ratelimiter-1-7-0-sources-1-jar/io/github/resilience4j/ratelimiter/internal/InMemoryRateLimiterRegistry.java  
\* /opt/cola/permits/1606844445\_1679436312.7962582/0/resilience4j-ratelimiter-1-7-0-sources-1-jar/io/github/resilience4j/ratelimiter/internal/RateLimiterEventProcessor.java  
\* /opt/cola/permits/1606844445\_1679436312.7962582/0/resilience4j-ratelimiter-1-7-0-sources-1-jar/io/github/resilience4j/ratelimiter/RateLimiter.java  
\* /opt/cola/permits/1606844445\_1679436312.7962582/0/resilience4j-ratelimiter-1-7-0-sources-1-jar/io/github/resilience4j/ratelimiter/event/AbstractRateLimiterEvent.java  
\* /opt/cola/permits/1606844445\_1679436312.7962582/0/resilience4j-ratelimiter-1-7-0-sources-1-jar/io/github/resilience4j/ratelimiter/internal/AtomicRateLimiter.java  
\*  
/opt/cola/permits/1606844445\_1679436312.7962582/0/resilience4j-ratelimiter-1-7-0-sources-1-jar/io/github/resilience4j/ratelimiter/event/RateLimiterOnDrainedEvent.java  
\* /opt/cola/permits/1606844445\_1679436312.7962582/0/resilience4j-ratelimiter-1-7-0-sources-1-jar/io/github/resilience4j/ratelimiter/event/RateLimiterOnFailureEvent.java  
\* /opt/cola/permits/1606844445\_1679436312.7962582/0/resilience4j-ratelimiter-1-7-0-sources-1-jar/io/github/resilience4j/ratelimiter/event/RateLimiterOnSuccessEvent.java  
\* /opt/cola/permits/1606844445\_1679436312.7962582/0/resilience4j-ratelimiter-1-7-0-sources-1-jar/io/github/resilience4j/ratelimiter/internal/SemaphoreBasedRateLimiter.java  
\* /opt/cola/permits/1606844445\_1679436312.7962582/0/resilience4j-ratelimiter-1-7-0-sources-1-jar/io/github/resilience4j/ratelimiter/RequestNotPermitted.java

## 1.802 resilience4j-retry 1.7.0

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*
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```

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* /opt/cola/permits/1606844437_1679436314.621824/0/resilience4j-retry-1-7-0-sources-
jar/io/github/resilience4j/retry/package-info.java
* /opt/cola/permits/1606844437_1679436314.621824/0/resilience4j-retry-1-7-0-sources-
jar/io/github/resilience4j/retry/utis/package-info.java
* /opt/cola/permits/1606844437_1679436314.621824/0/resilience4j-retry-1-7-0-sources-
jar/io/github/resilience4j/retry/internal/package-info.java
*
/opt/cola/permits/1606844437_1679436314.621824/0/resilience4j-retry-1-7-0-sources-
jar/io/github/resilience4j/retry/event/package-info.java
```

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```
* /opt/cola/permits/1606844437_1679436314.621824/0/resilience4j-retry-1-7-0-sources-
```

jar/io/github/resilience4j/retry/internal/InMemoryRetryRegistry.java  
\* /opt/cola/permits/1606844437\_1679436314.621824/0/resilience4j-retry-1-7-0-sources-  
jar/io/github/resilience4j/retry/RetryRegistry.java  
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jar/io/github/resilience4j/retry/internal/RetryImpl.java  
* /opt/cola/permits/1606844437_1679436314.621824/0/resilience4j-retry-1-7-0-sources-  
jar/io/github/resilience4j/retry/Retry.java  
* /opt/cola/permits/1606844437_1679436314.621824/0/resilience4j-retry-1-7-0-sources-  
jar/io/github/resilience4j/retry/event/RetryOnErrorEvent.java  
*  
/opt/cola/permits/1606844437_1679436314.621824/0/resilience4j-retry-1-7-0-sources-  
jar/io/github/resilience4j/retry/event/RetryOnIgnoredErrorEvent.java  
* /opt/cola/permits/1606844437_1679436314.621824/0/resilience4j-retry-1-7-0-sources-  
jar/io/github/resilience4j/retry/event/RetryEvent.java  
* /opt/cola/permits/1606844437_1679436314.621824/0/resilience4j-retry-1-7-0-sources-  
jar/io/github/resilience4j/retry/event/AbstractRetryEvent.java  
* /opt/cola/permits/1606844437_1679436314.621824/0/resilience4j-retry-1-7-0-sources-  
jar/io/github/resilience4j/retry/RetryConfig.java  
* /opt/cola/permits/1606844437_1679436314.621824/0/resilience4j-retry-1-7-0-sources-  
jar/io/github/resilience4j/retry/event/RetryOnSuccessEvent.java  
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\* /opt/cola/permits/1606844437\_1679436314.621824/0/resilience4j-retry-1-7-0-sources-  
jar/io/github/resilience4j/retry/MaxRetriesExceeded.java

## 1.803 icu 70

### 1.803.1 Available under license :

---

layout: default  
title: Legalities  
parent: Release & Milestone Tasks  
grand\_parent: Contributors  
nav\_order: 70

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## ## 2. Update license files

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See [svn changeset r39632](https://github.com/unicode-org/icu/commit/0001f6c5e92f6f3a8d66c7dbc47cc24df7633a71) for

an example; there should be only two files to update.

```
## *-makefile*-
```

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
```

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```

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```

```
## Commands to generate dependency files
```

```
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
```

```
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

```
## Flags for position independent code
```

```
SHAREDLIBCFLAGS = -fPIC
```

```
SHAREDLIBCXXFLAGS = -fPIC
```

```
SHAREDLIBCPPFLAGS = -DPIC
```



```

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O}: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[:]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[:]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}

```

```
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO). $(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO). $(SO_TARGET_VERSION) $@
```

```
## Bind internal references
```

```
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

```
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

```
## End BSD-specific setup
```

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- \* /opt/cola/permits/1609962796\_1679492696.7944398/0/resilience4j-micrometer-1-7-0-sources-1-jar/io/github/resilience4j/micrometer/tagged/TaggedTimeLimiterMetrics.java

## 1.805 jsqparser 1.2

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jar/net/sf/jsqparser/statement/create/view/TemporaryOption.java
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jar/net/sf/jsqlparser/statement/select/Wait.java

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jar/net/sf/jsqlparser/expression/NotExpression.java

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Found in path(s):

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/expression/StringValue.java

\*

/opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/statement/insert/Insert.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/statement/alter/Alter.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/statement/select/IntoTableVisitor.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/expression/AnalyticExpression.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/statement/select/SetOperationList.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/util/ConnectExpressionsVisitor.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/schema/Column.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/expression/CastExpression.java

\*

/opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/parser/JSqlParser.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/statement/select/ParenthesisFromItem.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/expression/operators/relational/ExistsExpression.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
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\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
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\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/statement/select/SelectItem.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/operators/relational/Matches.java

\*

/opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/operators/arithmetic/Multiplication.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/util/deparsed/ExpressionDeParser.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/statement/select/IntersectOp.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/statement/select/WithItem.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/operators/relational/EqualsTo.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/statement/select/PlainSelect.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/AllComparisonExpression.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/statement/select/OrderByVisitor.java

\*

/opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/operators/relational/LikeExpression.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/util/deparsed/UpdateDeParser.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/TimeValue.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/operators/arithmetic/Subtraction.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/operators/relational/MinorThanEquals.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/operators/relational/GreaterThan.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/statement/select/Fetch.java

\*

/opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/statement/create/table/CreateTable.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/operators/conditional/OrExpression.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/util/deparsed/StatementDeParser.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/statement/select/FromItem.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/util/deparsed/CreateTableDeParser.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/statement/select/LateralSubSelect.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-

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jar/net/sf/pgsqlparser/statement/select/Top.java
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* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
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* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
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* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
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* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
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* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
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* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
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* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
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* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
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*
/opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
jar/net/sf/pgsqlparser/statement/select/ValuesList.java
* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
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* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
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* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
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* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
jar/net/sf/pgsqlparser/statement/create/table/ForeignKeyIndex.java

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*
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* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
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*
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jar/net/sf/jsqlparser/statement/select/SelectVisitor.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/schema/Server.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
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jar/net/sf/jsqlparser/statement/select/Join.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
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* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
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* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
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* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/expression/AnyComparisonExpression.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
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* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
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* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/expression/operators/relational/InExpression.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/statement/replace/Replace.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/statement/StatementVisitor.java
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/opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/CaseExpression.java  
\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/operators/arithmetic/BitwiseLeftShift.java  
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\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/operators/relational/ExpressionList.java  
\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/operators/relational/MultiExpressionList.java  
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/opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/statement/select/SubSelect.java  
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\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/operators/relational/ItemsList.java  
\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/schema/MultiPartName.java  
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 \* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/statement/Statement.java  
 \* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/util/deparsed/AlterViewDeParser.java  
 \* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/statement/truncate/Truncate.java  
 \* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/expression/operators/arithmetic/Addition.java  
 \* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/expression/IntervalExpression.java  
 \*  
 /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/statement/select/SelectItemVisitor.java  
 \* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/statement/create/index/CreateIndex.java  
 \* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/expression/DoubleValue.java  
 \* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/parser/CCJSqlParserManager.java  
 \* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/expression/Function.java  
 \* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/util/deparsed/SelectDeParser.java  
 \* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/expression/OracleHint.java  
 \*  
 /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/statement/select/MinusOp.java  
 \* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/statement/create/table/CheckConstraint.java  
 \* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/expression/operators/relational/SupportsOldOracleJoinSyntax.java  
 \* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/statement/select/Limit.java  
 \* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/JSQlParserException.java  
 \* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/expression/JdbcParameter.java  
 \* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/statement/select/Select.java  
 \* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
 jar/net/sf/jsqlparser/util/AddAliasesVisitor.java

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*
/opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/util/TablesNamesFinder.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/statement/select/UnionOp.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/schema/Table.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/statement/select/AllTableColumns.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/expression/WhenClause.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/statement/select/FromItemVisitor.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/statement/drop/Drop.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/statement/select/AllColumns.java
*
/opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/util/deparsers/CreateViewDeParser.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/expression/operators/relational/RegExpMatchOperator.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/statement/select/Distinct.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/util/deparsers/ReplaceDeParser.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/expression/ExpressionVisitor.java
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\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/statement/merge/Merge.java

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\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/WindowElement.java  
\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/WindowOffset.java  
\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/operators/relational/RegExpMatchOperatorType.java  
\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/statement/Statements.java  
\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/operators/relational/RegExpMySQLOperator.java  
\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/JsonExpression.java  
\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/WindowRange.java

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/opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/operators/relational/ItemsListVisitorAdapter.java  
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\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/statement/select/IntoTableVisitorAdapter.java  
\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/statement/select/SelectVisitorAdapter.java

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\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/AnyType.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/expression/MySQLGroupConcat.java

\*

/opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/statement/SetStatement.java

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/opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/util/cnfexpression/MultipleExpression.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/net/sf/jsqlparser/statement/alter/EnableConstraint.java

\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-

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jar/net/sf/jsqlparser/util/cnfexpression/MultiOrExpression.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/expression/MySQLIndexHint.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/statement/upsert/Upsert.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/statement/alter/DeferrableConstraint.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/util/cnfexpression/CloneHelper.java
*
/opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/util/cnfexpression/MultiAndExpression.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/util/deparsed/UpsertDeParser.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/statement/alter/ConstraintState.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/statement/Commit.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/statement/alter/ValidateConstraint.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
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jar/net/sf/jsqlparser/parser/StringProvider.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/parser/Token.java
*
/opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/parser/CCJSqlParserTokenManager.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/parser/StreamProvider.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/parser/TokenMgrException.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/parser/Provider.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/parser/ParseException.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/parser/CCJSqlParserConstants.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/parser/CCJSqlParser.java
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```

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```
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqparser-1-2-sources-1-
jar/net/sf/jsqparser/parser/BaseToken.java
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqparser-1-2-sources-1-
jar/net/sf/jsqparser/expression/AnalyticType.java
```

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```
/*
```



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```
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/expression/ValueListExpression.java
*
```

```
/opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-
jar/net/sf/jsqlparser/statement/create/view/ForceOption.java
```

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Found in path(s):

```
* /opt/cola/permits/1610313906_1681842954.251033/0/jsqlparser-1-2-sources-1-jar/META-
INF/maven/com.github.jsqlparser/jsqlparser/pom.xml
```

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```
/*
```

```
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\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
jar/net/sf/jsqlparser/statement/alter/AlterExpression.java  
\*  
/opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
jar/net/sf/jsqlparser/expression/TimeKeyExpression.java  
\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
jar/net/sf/jsqlparser/statement/create/table/ExcludeConstraint.java  
\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
jar/net/sf/jsqlparser/statement/alter/AlterOperation.java  
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\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-

```
jar/net/sf/pgsqlparser/expression/ExpressionVisitorAdapter.java
*
/opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
jar/net/sf/pgsqlparser/statement/select/TableFunction.java
* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
jar/net/sf/pgsqlparser/statement/insert/InsertModifierPriority.java
* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
jar/net/sf/pgsqlparser/parser/ASTNodeAccessImpl.java
* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
jar/net/sf/pgsqlparser/util/deparsed/OrderByDeParser.java
* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
jar/net/sf/pgsqlparser/statement/merge/MergeUpdate.java
* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
jar/net/sf/pgsqlparser/statement/merge/MergeInsert.java
* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
jar/net/sf/pgsqlparser/util/deparsed/LimitDeparsed.java
* /opt/cola/permits/1610313906_1681842954.251033/0/pgsqlparser-1-2-sources-1-
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jar/net/sf/jsqlparser/statement/create/table/NamedConstraint.java  
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\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
jar/net/sf/jsqlparser/statement/select/Skip.java  
\* /opt/cola/permits/1610313906\_1681842954.251033/0/jsqlparser-1-2-sources-1-  
jar/net/sf/jsqlparser/statement/select/First.java

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jar/com/google/auto/value/processor/TypeVariables.java
```

```
* /opt/cola/permits/1618792883_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-
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jar/com/google/auto/value/processor/Optionalish.java
* /opt/cola/permits/1618792883_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-
jar/com/google/auto/value/extension/memoized/processor/MemoizeExtension.java
* /opt/cola/permits/1618792883_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-
jar/com/google/auto/value/processor/PropertyBuilderClassifier.java
*
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* /opt/cola/permits/1618792883_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-
jar/com/google/auto/value/processor/autoannotation.vm
* /opt/cola/permits/1618792883_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-
jar/com/google/auto/value/processor/equalshashcode.vm
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* /opt/cola/permits/1618792883_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-
jar/com/google/auto/value/extension/memoized/processor/MemoizedValidator.java
*
/opt/cola/permits/1618792883_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-
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```

\* /opt/cola/permits/1618792883\_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-jar/com/google/auto/value/processor/BuilderSpec.java  
\* /opt/cola/permits/1618792883\_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-jar/com/google/auto/value/processor/TemplateVars.java  
\*  
/opt/cola/permits/1618792883\_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-jar/com/google/auto/value/processor/AnnotationOutput.java  
\* /opt/cola/permits/1618792883\_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-jar/com/google/auto/value/processor/AutoAnnotationProcessor.java  
\* /opt/cola/permits/1618792883\_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-jar/com/google/auto/value/processor/AbortProcessingException.java  
\* /opt/cola/permits/1618792883\_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-jar/com/google/auto/value/processor/TypeMirrorSet.java  
\* /opt/cola/permits/1618792883\_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-jar/com/google/auto/value/processor/Reformatter.java  
\* /opt/cola/permits/1618792883\_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-jar/com/google/auto/value/processor/AutoAnnotationTemplateVars.java  
\*  
/opt/cola/permits/1618792883\_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-jar/com/google/auto/value/processor/GwtCompatibility.java  
\* /opt/cola/permits/1618792883\_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-jar/com/google/auto/value/processor/ErrorReporter.java  
\* /opt/cola/permits/1618792883\_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-jar/com/google/auto/value/processor/MissingTypeException.java  
\* /opt/cola/permits/1618792883\_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-jar/com/google/auto/value/processor/GwtSerialization.java  
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\* /opt/cola/permits/1618792883\_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-

jar/com/google/auto/value/processor/JavaScanner.java  
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jar/com/google/auto/value/processor/AutoValueTemplateVars.java  
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/\*\*

\* Specifies that AutoValue should copy any annotations from the annotated element to the  
\* generated class. This annotation supports classes and methods.

\*

\* <p>The following annotations are excluded:

\*

\* <ol>

\* <li>AutoValue and its nested annotations;

\* <li>any annotation appearing in the { @link AutoValue.CopyAnnotations#exclude }  
field;

\* <li>any class annotation which is itself annotated with the { @link

\* java.lang.annotation.Inherited } meta-annotation.

\* </ol>

\*  
 \* <p>For historical reasons, annotations are always copied from an { @code @AutoValue } property  
 \* method to its implementation, unless { @code @CopyAnnotations } is present and explicitly  
 \* { @linkplain CopyAnnotations#exclude excludes } that annotation. But annotations are not copied  
 \* from the { @code @AutoValue } class itself to its implementation unless { @code @CopyAnnotations }  
 \* is present.

\*  
 \* <p>If you want to copy annotations from your { @literal @ }AutoValue-annotated class's methods to  
 \* the generated fields in the AutoValue\_... implementation, annotate your method  
 \* with { @literal @ }AutoValue.CopyAnnotations. For example, if Example.java is:<pre>

```
* { @code @ }Immutable
* { @code @ }AutoValue
* abstract class Example {
*   { @code @ }CopyAnnotations
*   { @code @ }SuppressWarnings("Immutable")
```

// justification ...

```
* abstract Object getObject();
* // other details ...
* }</pre>
```

\*  
 \* <p>Then AutoValue will generate the following AutoValue\_Example.java:<pre>

```
* final class AutoValue_Example extends Example {
*   { @code @ }SuppressWarnings("Immutable")
*   private final Object object;
*
*   { @code @ }SuppressWarnings("Immutable")
*   { @code @ }Override
*   Object getObject() {
*     return object;
*   }
*
*   // other details ...
* }</pre>
```

\* <p>When the <i>type</i> of an { @code @AutoValue } property method has annotations, those are  
 \* part of the type, so by default they are copied to the implementation of the method. But if  
 \* a type annotation is mentioned in { @code exclude } then it is not copied.

\*  
 \* <p>For example, suppose { @code @Confidential } is a  
 \* { @link java.lang.annotation.ElementType#TYPE\_USE TYPE\_USE } annotation:

```
* <pre>
*
*
* { @code @ }AutoValue
* abstract class Person {
```



```

* static Person create({@code @}Confidential String name, int id) {
*     return new AutoValue_Person(name, id);
* }
*
* abstract {@code @}Confidential String name();
* abstract int id();
* }</pre>
*
* Then the implementation of the {@code name()} method will also have return type
* {@code @Confidential String}. But if {@code name()} were written like this...
*
* <pre>
*     {@code @AutoValue.CopyAnnotations(exclude = Confidential.class)}
*     abstract {@code @}Confidential String name();</pre>
*
* <p>...then the implementation of {@code name()} would have return type {@code String} without
* the annotation.
*
* @author Carmi Grushko
*/

```

Found in path(s):

\* /opt/cola/permits/1618792883\_1684405330.3241239/0/auto-value-annotations-1-6-6-sources-1-jar/com/google/auto/value/AutoValue.java

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\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/package.html

\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/signature/package.html

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- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/optimizers/impl/refl/nodes/BaseAccessor.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/optimizers/impl/refl/nodes/ArrayAccessorNest.java
- \*
- /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/optimizers/impl/refl/nodes/FieldAccessor.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/optimizers/impl/refl/nodes/StaticVarAccessorNH.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/optimizers/impl/refl/nodes/Union.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/optimizers/impl/refl/nodes/FunctionAccessor.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/optimizers/impl/refl/nodes/ArrayLength.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/optimizers/impl/refl/nodes/MapAccessorNest.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/optimizers/impl/refl/collection/ListCreator.java
- \*
- /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/optimizers/impl/refl/nodes/DynamicFunctionAccessor.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/optimizers/impl/refl/nodes/VariableAccessor.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/optimizers/impl/refl/nodes/StaticVarAccessor.java
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- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/optimizers/impl/refl/collection/ExprValueAccessor.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/optimizers/impl/refl/collection/MDArrayCreator.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/optimizers/impl/refl/nodes/FieldAccessorNH.java
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- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/optimizers/impl/refl/nodes/IndexedCharSeqAccessorNest.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-

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jar/org/mvel2/optimizers/impl/refl/nodes/MethodAccessorNH.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
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* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
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/opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/optimizers/impl/refl/nodes/ListAccessorNest.java
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* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/optimizers/impl/refl/nodes/ThisValueAccessor.java
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/**
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- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/Macro.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/MVELInterpretedRuntime.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/util/PropertyTools.java
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- /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/conversion/CharCH.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/util/CompilerTools.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/ast/StaticImportNode.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/optimizers/impl/asm/ProducesBytecode.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/ast/ForNode.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/math/MathProcessor.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/optimizers/AbstractOptimizer.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/sh/DefaultEnvironment.java
- \*
- /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/templates/res/EvalNode.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/conversion/BooleanCH.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/debug/DebugTools.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/ast/Or.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/conversion/ListCH.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/templates/res/NamedIncludeNode.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/templates/CompiledTemplate.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/integration/PropertyHandler.java
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- /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/compiler/ExecutableAccessor.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/templates/res/TerminalExpressionNode.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/ast/NewObjectNode.java
- \* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-

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jar/org/mvel2/sh/command/basic/ObjectInspector.java  
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jar/org/mvel2/templates/TemplateSyntaxError.java  
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\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-  
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jar/org/mvel2/integration/impl/TypeInjectionResolverFactoryImpl.java  
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jar/org/mvel2/conversion/UnitConversion.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-  
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\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-  
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jar/org/mvel2/ast/EndOfStatement.java  
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\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-  
jar/org/mvel2/ast/Function.java

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* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
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* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/templates/res/TerminalNode.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/ast/DeepAssignmentNode.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
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* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
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* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
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* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/ast/InterceptorWrapper.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
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* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
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/opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/ast/BinaryOperation.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/integration/VariableResolverFactory.java  
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\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/ast/OperatorNode.java  
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\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/ast/PostFixIncNode.java  
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/opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/ast/Substatement.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/integration/impl/DefaultLocalVariableResolverFactory.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/templates/res/CompiledNamedIncludeNode.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/util/Stack.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/templates/res/ExpressionNode.java  
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\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/conversion/Converter.java  
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\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/ast/LineLabel.java  
\*  
/opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/util/MVELClassLoader.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/sh/command/file/DirList.java

```
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/templates/SimpleTemplateRegistry.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/debug/Debugger.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/optimizers/dynamic/DynamicCollectionAccessor.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/optimizers/impl/refl/ReflectiveAccessorOptimizer.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/templates/TemplateDebug.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/optimizers/dynamic/DynamicSetAccessor.java
*
/opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/templates/res/CommentNode.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/ast/IndexedDeclTypedVarNode.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/ast/Contains.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/conversion/CharArrayCH.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/ast/DoNode.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/conversion/ArrayHandler.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/ast/WhileNode.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/conversion/LongCH.java
*
/opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/sh/command/file/FileCommandSet.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/util/ASTIterator.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/ast/PostFixDecNode.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/ast/AssignmentNode.java
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\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/Frame.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/ByteVector.java  
\*  
/opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/TypePath.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/MethodVisitor.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/Symbol.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/MethodWriter.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/ClassReader.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/Handle.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/Type.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/signature/SignatureVisitor.java  
\*  
/opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/ModuleWriter.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/Handler.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/FieldVisitor.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/Opcodes.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/AnnotationWriter.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/ClassTooLargeException.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/MethodTooLargeException.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/AnnotationVisitor.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/Edge.java  
\*  
/opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/asm/ModuleVisitor.java  
\* /opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-



```
jar/org/mvel2/asm/signature/SignatureReader.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/asm/ClassVisitor.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/asm/ConstantDynamic.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/asm/Context.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/asm/ClassWriter.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/asm/CurrentFrame.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/asm/signature/SignatureWriter.java
*
/opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/asm/TypeReference.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/asm/Constants.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/asm/Attribute.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/asm/SymbolTable.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/asm/FieldWriter.java
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```
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-
jar/org/mvel2/ErrorDetail.java
* /opt/cola/permits/1618786537_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/DataTypes.java
```

\*  
/opt/cola/permits/1618786537\_1683658284.9636264/0/mvel2-2-4-4-final-sources-4-jar/org/mvel2/ConversionHandler.java

# 1.809 affinity 3.1.11

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* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-jar/java/lang/ThreadLifecycleListener.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-jar/net/openhft/affinity/impl/SolarisJNAAffinity.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-jar/net/openhft/ticker/impl/SystemClock.java
*
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-jar/net/openhft/affinity/AffinityThreadFactory.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-jar/net/openhft/affinity/impl/NullAffinity.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-jar/net/openhft/affinity/AffinityStrategy.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-jar/net/openhft/affinity/NonForkingAffinityLock.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-jar/net/openhft/ticker/impl/JNIClock.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-jar/net/openhft/affinity/impl/WindowsJNAAffinity.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
```

```
jar/net/openhft/affinity/LockCheck.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/net/openhft/affinity/IAffinity.java
*
/opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/net/openhft/affinity/impl/VersionHelper.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/software/chronicle/enterprise/internals/impl/NativeAffinity.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/net/openhft/affinity/BootClassPath.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/net/openhft/affinity/CpuLayout.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/net/openhft/affinity/impl/LinuxHelper.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/java/lang/ThreadTrackingGroup.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/net/openhft/affinity/impl/Utilities.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/net/openhft/affinity/impl/VanillaCpuLayout.java
*
/opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/net/openhft/affinity/Affinity.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-jar/net/openhft/ticker/Ticker.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/net/openhft/ticker/ITicker.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/net/openhft/affinity/AffinityLock.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/net/openhft/affinity/AffinitySupport.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/net/openhft/affinity/impl/NoCpuLayout.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/net/openhft/affinity/impl/OSXJNAffinity.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/net/openhft/affinity/impl/LinuxJNAffinity.java
*
/opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/net/openhft/affinity/impl/PosixJNAffinity.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/net/openhft/affinity/AffinityStrategies.java
* /opt/cola/permits/1618782525_1684405336.6575818/0/affinity-3-1-11-sources-1-
jar/net/openhft/affinity/LockInventory.java
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## 1.810 chronicle-queue 5.17.11

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\* /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/impl/table/Metadata.java  
\*  
\* /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/impl/single/WriteLock.java  
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\* /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/impl/table/AbstractTSQueueLock.java  
\* /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/impl/StoreReleasable.java  
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\*  
\* /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/impl/single/TableStoreWriteLock.java  
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\* /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/service/ServiceWrapperBuilder.java  
\*  
/opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/service/EventLoopServiceWrapper.java  
\* /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/impl/single/SCQIndexing.java  
\* /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/JDBCComponent.java  
\* /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/impl/StoreFileListener.java  
\* /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/JDBCStatement.java  
\* /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/JDBCResult.java  
\*  
/opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/JDBCService.java  
\* /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/impl/ExcerptContext.java  
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- \* /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/TailerDirection.java
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- /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/RollCycle.java
- \* /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/impl/WireStoreSupplier.java
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- \* /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/impl/single/MetaDataKeys.java
- \* /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/impl/single/NoDocumentContext.java
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- /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/impl/RollingChronicleQueue.java
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- \* /opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/impl/WireStorePool.java
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/opt/cola/permits/1618784142\_1684405332.5911813/0/chronicle-queue-5-17-11-sources-1-jar/net/openhft/chronicle/queue/impl/single/NoopQueueLock.java

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* /opt/cola/permits/1618787026_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-
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/opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/values/TwoLongValue.java  
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\* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-

jar/net/openhft/chronicle/core/threads/InvalidEventHandlerException.java  
\* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/util/ThrowingTriFunction.java  
\* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/pool/ClassAliasPool.java  
\* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/util/ObjBooleanConsumer.java  
\*  
/opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/util/ShortConsumer.java  
\* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/annotation/HotMethod.java  
\* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/io/IORuntimeException.java  
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\* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/META-INF/maven/net.openhft/chronicle-core/pom.xml  
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- \* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/time/RunningMinimum.java
- \* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/time/VanillaDifferencer.java
- \* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/onoes/WebExceptionHandler.java
- \*
- /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/time/Differencer.java
- \* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/util/ThrowingRunnable.java
- \* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/onoes/StackoverflowExceptionHandler.java
- \* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/onoes/ExceptionHandler.java
- \* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/onoes/RecordingExceptionHandler.java
- \* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/jlbh/JLBHOptions.java
- \*
- /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/onoes/NullExceptionHandler.java
- \* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/threads/StackSampler.java
- \* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/threads/ThreadDump.java
- \* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/util/ThrowingSupplier.java
- \* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/LicenceCheck.java
- \* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/onoes/Slf4jExceptionHandler.java
- \* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/onoes/LogLevel.java
- \*
- /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/threads/Timer.java
- \* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/util/URIEncoder.java
- \* /opt/cola/permits/1618787026\_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-jar/net/openhft/chronicle/core/util/ThrowingCallable.java

```
* /opt/cola/permits/1618787026_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-
jar/net/openhft/chronicle/core/onoes/GoogleExceptionHandler.java
* /opt/cola/permits/1618787026_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-
jar/net/openhft/chronicle/core/onoes/ChainedExceptionHandler.java
* /opt/cola/permits/1618787026_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-
jar/net/openhft/chronicle/core/io/ClosedState.java
* /opt/cola/permits/1618787026_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-
jar/net/openhft/chronicle/core/onoes/ExceptionKey.java
* /opt/cola/permits/1618787026_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-
jar/net/openhft/chronicle/core/onoes/PrintExceptionHandler.java
*
/opt/cola/permits/1618787026_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-
jar/net/openhft/chronicle/core/threads/VanillaEventHandler.java
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* /opt/cola/permits/1618787026_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-
jar/net/openhft/chronicle/core/tcp/UnsafeFastJ8SocketChannel.java
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* /opt/cola/permits/1618787026_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-
jar/net/openhft/chronicle/core/onoes/Google.properties
* /opt/cola/permits/1618787026_1684405328.7541234/0/chronicle-core-2-17-10-sources-1-
```



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```
* /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-
jar/org/nustaq/offheap/bytez/malloc/MMFBytez.java
```

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\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/annotations/Conditional.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/kson/Kson.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/net/TCPObjectServer.java  
\*  
/opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/FSTCrossPlatformSerialzer.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/bytez/bytesource/AsciiStringByteSource.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/kson/KsonCharOutput.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/util/FSTOutputStream.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/FSTClassInstantiator.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/FSTObjectSerializer.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/serializers/FSTStringBuilderSerializer.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/serializers/FSTStringSerializer.java  
\*  
/opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/FSTObjectOutputNoShared.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/kson/KsonStringOutput.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/FSTCodedOffheapMap.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/minbin/MBTags.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/serializers/FSTCPEnumSetSerializer.java

\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/serialization/FSTDecoder.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/serialization/serializers/FSTStringBufferSerializer.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/kson/KsonArgTypesResolver.java  
 \*  
 /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/serialization/annotations/OneOf.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/serialization/minbin/MBSequence.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/offheap/structs/unsafeimpl/FSTByteArrayUnsafeStructGeneration.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/serialization/coders/FSTStreamDecoder.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/offheap/bytez/BasicBytez.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/offheap/structs/FSTEmbeddedBinary.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/serialization/minbin/MBPrinter.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/serialization/minbin/MBObject.java  
 \*  
 /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/offheap/OffHeapByteTree.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/serialization/FSTConfiguration.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/serialization/serializers/FSTStructSerializer.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/kson/ArgTypes.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/offheap/structs/structtypes/StructArray.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/serialization/FSTObjectRegistry.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/serialization/serializers/FSTEnumSetSerializer.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/serialization/minbin/MBIn.java  
 \*  
 /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/serialization/FSTObjectOutput.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/serialization/FSTObjectInputNoShared.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/kson/KsonTypeMapper.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
 jar/org/nustaq/offheap/bytez/bytesource/ByteArrayByteSource.java

\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/util/FSTInt2ObjectMap.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/FSTDefaultClassInstantiator.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/FSTClazzInfoRegistry.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/structs/NoAssist.java  
 \*  
 /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/kson/KsonParseException.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/simpleapi/OffHeapCoder.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/FSTSerializerRegistryDelegate.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/kson/JSONSerializer.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/kson/KsonStringCharInput.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/FreeList.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/bytez/ByteSource.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/kson/KsonDeserializer.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/structs/FSTStructChange.java  
 \*  
 /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/util/FSTInputStream.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/structs/unsafeimpl/FSTStructFactory.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/bytez/malloc/MallocBytez.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/simpleapi/MinBinCoder.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/FSTClazzInfo.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/FSTLongOffheapMap.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/serializers/FSTMapSerializer.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/serializers/FSTArrayListSerializer.java  
 \*  
 /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/simpleapi/FSTCoder.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/bytez/bytesource/CutAsciiStringByteSource.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-

jar/org/nustaq/serialization/coders/FSTStreamEncoder.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/serialization/FSTObjectInput.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/serialization/simpleapi/FSTBufferTooSmallException.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/serialization/minbin/MinBin.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/serialization/annotations/Transient.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/offheap/FSTBinaryOffheapMap.java  
\*  
/opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/serialization/serializers/FSTCollectionSerializer.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/offheap/structs/FSTArrayElementSizeCalculator.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/serialization/minbin/MBOut.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/serialization/FSTObjgenesisInstantiator.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/offheap/bytez/onheap/HeapBytez.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/serialization/FSTSerialisationListener.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/serialization/minbin/MBRef.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/serialization/FSTClazzNameRegistry.java  
\*  
/opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/serialization/coders/FSTBytezEncoder.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/offheap/FSTSerializedOffheapMap.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/serialization/annotations/Serialize.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/serialization/util/FSTInt2IntMap.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/offheap/structs/structtypes/StructString.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/serialization/coders/FSTBytezDecoder.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/serialization/VersionConflictListener.java  
\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/serialization/util/FSTOrderedConcurrentJobExecutor.java  
\*  
/opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-  
jar/org/nustaq/offheap/FSTAsciiStringOffheapMap.java

\* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/bytez/bytesource/BytezByteSource.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/bytez/bytesource/LeftCutStringByteSource.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/coders/FSTMinBinDecoder.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/serializers/FSTDateSerializer.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/FSTEncoder.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/annotations/AnonymousTransient.java  
 \*  
 /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/serializers/FSTClassSerializer.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/bytez/BytezAllocator.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/structs/structtypes/StructInt.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/structs/FSTStructAllocator.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/bytez/malloc/MallocBytezAllocator.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/annotations/Flat.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/structs/unsafeimpl/FSTStructGeneration.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/kson/KsonCharInput.java  
 \*  
 /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/coders/FSTMinBinEncoder.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/simpleapi/DefaultCoder.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/kson/KsonSerializer.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/serializers/FSTCPTrowableSerializer.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/util/FSTUtil.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/structs/Align.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/structs/FSTStruct.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/minbin/GenMeta.java  
 \*  
 /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/annotations/Version.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/net/TCPObjectSocket.java  
 \* /opt/cola/permits/1618782532\_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/bytez/Bytez.java

```
* /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-
jar/org/nustaq/serialization/FSTSerializerRegistry.java
* /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-
jar/org/nustaq/serialization/util/FSTIdentity2IdMap.java
* /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-
jar/org/nustaq/offheap/bytez/onheap/HeapBytezAllocator.java
* /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-
jar/org/nustaq/serialization/FSTBasicObjectSerializer.java
* /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-
jar/org/nustaq/serialization/serializers/FSTBigNumberSerializers.java
*
```

```
/opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-
jar/org/nustaq/serialization/util/FSTObject2IntMap.java
* /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-
jar/org/nustaq/offheap/structs/Templated.java
* /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-
jar/org/nustaq/serialization/annotations/Predict.java
* /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-
jar/org/nustaq/serialization/simpleapi/OnHeapCoder.java
* /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-
jar/org/nustaq/offheap/structs/structtypes/StructByteString.java
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* /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-
jar/org/nustaq/serialization/serializers/FSTJSonUnmodifiableMapSerializer.java
* /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-
jar/org/nustaq/serialization/serializers/FSTJSonUnmodifiableCollectionSerializer.java
```

## 1.813 java-file-io 1.0.0

## 1.813.1 Available under license :

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```
* /opt/cola/permits/1618790841_1684410236.9840844/0/java-file-io-1-0-0-sources-1-jar/META-
INF/maven/org.owasp/java-file-io/pom.xml
```

## 1.814 google-http-client 1.31.0

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* /opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
jar/com/google/api/client/http/HttpMethods.java
* /opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
jar/com/google/api/client/http/apache/HttpExtensionMethod.java
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\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/NanoClock.java

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* /opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
jar/com/google/api/client/util/store/DataStoreUtils.java
*
/opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
jar/com/google/api/client/http/apache/SSLSocketFactoryExtension.java
* /opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
jar/com/google/api/client/util/store/FileDataStoreFactory.java
* /opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
jar/com/google/api/client/util/Preconditions.java
* /opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
jar/com/google/api/client/util/store/DataStoreFactory.java
* /opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
jar/com/google/api/client/util/ByteStreams.java
* /opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
jar/com/google/api/client/testing/util/SecurityTestUtils.java
* /opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
jar/com/google/api/client/util/Strings.java
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/opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
jar/com/google/api/client/util/Throwables.java
* /opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
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* /opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
jar/com/google/api/client/util/store/AbstractMemoryDataStore.java
* /opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
jar/com/google/api/client/testing/json/package-info.java
* /opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
jar/com/google/api/client/testing/util/MockSleeper.java
* /opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
jar/com/google/api/client/json/webtoken/package-info.java
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/opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
jar/com/google/api/client/util/PemReader.java
* /opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
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jar/com/google/api/client/util/Sets.java
* /opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
jar/com/google/api/client/testing/util/TestableByteArrayOutputStream.java
* /opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
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* /opt/cola/permits/1618782158_1684405342.5930734/0/google-http-client-1-31-0-sources-1-
jar/com/google/api/client/json/JsonPolymorphicTypeMap.java
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/opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/store/AbstractDataStoreFactory.java  
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\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/Joiner.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/testing/util/TestableByteArrayInputStream.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/testing/http/apache/package-info.java  
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/opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/testing/json/MockJsonGenerator.java  
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\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/testing/json/MockJsonFactory.java  
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\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/HttpIOExceptionHandler.java  
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/opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/MultipartContent.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/store/AbstractDataStore.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/testing/util/MockBackOff.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/HttpBackOffUnsuccessfulResponseHandler.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/BackOffUtils.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/Maps.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/Objects.java  
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\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/testing/http/javanet/MockURLConnection.java  
\*  
/opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/SslUtils.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/ObjectParser.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/EmptyContent.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/LoggingByteArrayOutputStream.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/json/webtoken/JsonWebSignature.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/json/JsonObjectParser.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/ByteArrayStreamingContent.java  
\*

/opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/json/webtoken/JsonWebToken.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/StreamingContent.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/HttpMediaType.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/LoggingInputStream.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/Base64.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/IOUtils.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/ByteCountingOutputStream.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/LoggingOutputStream.java  
\*  
/opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/StringUtils.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/testing/util/package-info.java  
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\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/testing/http/MockHttpUnsuccessfulResponseHandler.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/HttpRequestFactory.java  
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\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/ByteArrayContent.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/HttpStatusCodes.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/UriTemplate.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/Types.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/AbstractInputStreamContent.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/Data.java  
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/opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/Value.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/BackOffPolicy.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/testing/http/HttpTesting.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/ExponentialBackOffPolicy.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/NullValue.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/ExponentialBackOff.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/FileContent.java  
\*

/opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/BasicAuthentication.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/testing/http/package-info.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/BackOff.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/AbstractHttpContent.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/ArrayValueMap.java

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\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/package-info.java

\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/json/CustomizeJsonParser.java

\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/Key.java

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/opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/InputStreamContent.java

\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/HttpResponseInterceptor.java

\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/json/JsonParser.java

\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/UrlEncodedParser.java

\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/UrlEncodedContent.java

\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/FieldInfo.java

\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-

jar/com/google/api/client/http/GenericUrl.java  
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jar/com/google/api/client/json/JsonToken.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-  
jar/com/google/api/client/http/HttpResponseException.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-  
jar/com/google/api/client/http/LowLevelHttpRequest.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-  
jar/com/google/api/client/json/rpc2/JsonRpcRequest.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-  
jar/com/google/api/client/util/ArrayMap.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-  
jar/com/google/api/client/json/GenericJson.java  
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jar/com/google/api/client/http/HttpExecuteInterceptor.java  
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jar/com/google/api/client/http/json/JsonHttpContent.java  
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jar/com/google/api/client/util/escape/PercentEscaper.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-  
jar/com/google/api/client/http/apache/ContentEntity.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-  
jar/com/google/api/client/util/escape/package-info.java  
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jar/com/google/api/client/util/ClassInfo.java  
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jar/com/google/api/client/testing/http/MockHttpTransport.java  
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jar/com/google/api/client/http/HttpRequest.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-  
jar/com/google/api/client/http/javanet/NetHttpRequest.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-  
jar/com/google/api/client/http/javanet/NetHttpTransport.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-  
jar/com/google/api/client/http/javanet/package-info.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-  
jar/com/google/api/client/util/DataMap.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-  
jar/com/google/api/client/testing/http/MockLowLevelHttpResponse.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-  
jar/com/google/api/client/http/LowLevelHttpResponse.java  
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/opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/apache/ApacheHttpRequest.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/escape/Escaper.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/escape/CharEscapers.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/apache/ApacheHttpTransport.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/json/rpc2/package-info.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/GenericData.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/LoggingStreamingContent.java  
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/opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/DateTime.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/escape/UnicodeEscaper.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/apache/ApacheHttpResponse.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/apache/package-info.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/json/Json.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/json/package-info.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/HttpResponse.java  
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/opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/testing/http/MockLowLevelHttpRequest.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/HttpHeaders.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/testing/http/MockHttpContent.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/escape/Platform.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/util/package-info.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/HttpContent.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/http/json/package-info.java  
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/opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-jar/com/google/api/client/json/JsonGenerator.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-

jar/com/google/api/client/http/HttpTransport.java  
\* /opt/cola/permits/1618782158\_1684405342.5930734/0/google-http-client-1-31-0-sources-1-  
jar/com/google/api/client/http/javanet/NetHttpResponse.java

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jar/net/openhft/chronicle/bytes/BytesOut.java  
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-  
jar/net/openhft/chronicle/bytes/AbstractBytesStore.java  
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-  
jar/net/openhft/chronicle/bytes/BytesIn.java
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- \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/ReadOnlyMappedBytesStore.java
- \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/ref/BinaryTwoLongReference.java
- \*
- /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/BytesInternal.java
- \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/AbstractBytes.java
- \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/MethodWriterInvocationHandler.java
- \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/AppendableUtil.java
- \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/BytesRingBufferStats.java
- \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/StreamingInputStream.java
- \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/ref/TextIntReference.java
- \*
- /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/util/Bit8StringInterner.java
- \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/BytesPrepender.java
- \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/ByteStringParser.java
- \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/StopCharTesters.java
- \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/ref/TwoLongReference.java
- \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/algo/OptimisedBytesStoreHash.java
- \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/ref/BinaryLongArrayReference.java
- \*
- /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/NewChunkListener.java
- \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/ByteStringAppender.java
- \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/MappedFile.java

\* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/MappedBytes.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/algo/BytesStoreHash.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/BytesUtil.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/ref/TextLongArrayReference.java  
 \*  
 /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/util/AbstractInterner.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/PointerBytesStore.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/RandomDataOutput.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/StopCharTester.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/ref/ByteableLongArrayValues.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/ref/TextBooleanReference.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/VanillaBytes.java  
 \*  
 /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/MappedBytesStore.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/BytesConsumer.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/ref/TextLongReference.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/BytesRingBuffer.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/StreamingDataInput.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/Byteable.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/NativeBytesStore.java  
 \*  
 /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/ref/LongReference.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/algo/VanillaBytesStoreHash.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/util/StringInternerBytes.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/net/openhft/chronicle/bytes/StreamingDataOutput.java  
 \* /opt/cola/permits/1618795735\_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-

```

jar/net/openhft/chronicle/bytes/util/Compression.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/RandomDataInput.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/Bytes.java
*
/opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/util/Compressions.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/StreamingOutputStream.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/NativeBytes.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/StreamingCommon.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/RandomCommon.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/util/EscapingStopCharTester.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/ref/BinaryIntReference.java
*
/opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/HeapBytesStore.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/StopCharsTester.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/ref/UncheckedLongReference.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/UTFDataFormatRuntimeException.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/ConnectionDroppedException.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/NoBytesStore.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/ByteStringWriter.java
*
/opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/BytesMarshaller.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/util/EscapingStopCharsTester.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/UncheckedNativeBytes.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/WriteBytesMarshallable.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/UncheckedBytes.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/BytesMarshallable.java

```

```
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/SubBytes.java
*
/opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/MappedBytesStoreFactory.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/pool/BytesPool.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/ReadBytesMarshallable.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/ref/BinaryLongReference.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/ByteStringReader.java
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-
jar/net/openhft/chronicle/bytes/util/UTF8StringInterner.java
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```
* /opt/cola/permits/1618795735_1684405339.806626/0/chronicle-bytes-2-17-20-sources-1-jar/META-
INF/maven/net.openhft/chronicle-bytes/pom.xml
```

## 1.816 chronicle-threads 2.17.2

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\* /opt/cola/permits/1618782832\_1684405334.3065124/0/chronicle-threads-2-17-2-sources-1-jar/META-INF/maven/net.openhft/chronicle-threads/pom.xml

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\* /opt/cola/permits/1618782832\_1684405334.3065124/0/chronicle-threads-2-17-2-sources-1-jar/net/openhft/chronicle/threads/EventGroup.java

\* /opt/cola/permits/1618782832\_1684405334.3065124/0/chronicle-threads-2-17-2-sources-1-jar/net/openhft/chronicle/threads/MonitorEventLoop.java

\* /opt/cola/permits/1618782832\_1684405334.3065124/0/chronicle-threads-2-17-2-sources-1-jar/net/openhft/chronicle/threads/PauserMonitor.java

\*  
/opt/cola/permits/1618782832\_1684405334.3065124/0/chronicle-threads-2-17-2-sources-1-jar/net/openhft/chronicle/threads/BlockingEventLoop.java

\* /opt/cola/permits/1618782832\_1684405334.3065124/0/chronicle-threads-2-17-2-sources-1-jar/net/openhft/chronicle/threads/Threads.java

\* /opt/cola/permits/1618782832\_1684405334.3065124/0/chronicle-threads-2-17-2-sources-1-jar/net/openhft/chronicle/threads/VanillaEventLoop.java

\* /opt/cola/permits/1618782832\_1684405334.3065124/0/chronicle-threads-2-17-2-sources-1-jar/net/openhft/chronicle/threads/TimedEventHandler.java

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```
* /opt/cola/permits/1618782832_1684405334.3065124/0/chronicle-threads-2-17-2-sources-1-
jar/net/openhft/chronicle/threads/TimeoutPauser.java
* /opt/cola/permits/1618782832_1684405334.3065124/0/chronicle-threads-2-17-2-sources-1-
jar/net/openhft/chronicle/threads/BusyTimedPauser.java
*
/opt/cola/permits/1618782832_1684405334.3065124/0/chronicle-threads-2-17-2-sources-1-
jar/net/openhft/chronicle/threads/TimingPauser.java
* /opt/cola/permits/1618782832_1684405334.3065124/0/chronicle-threads-2-17-2-sources-1-
jar/net/openhft/chronicle/threads/BusyPauser.java
* /opt/cola/permits/1618782832_1684405334.3065124/0/chronicle-threads-2-17-2-sources-1-
jar/net/openhft/chronicle/threads/MilliPauser.java
* /opt/cola/permits/1618782832_1684405334.3065124/0/chronicle-threads-2-17-2-sources-1-
jar/net/openhft/chronicle/threads/Pauser.java
* /opt/cola/permits/1618782832_1684405334.3065124/0/chronicle-threads-2-17-2-sources-1-
jar/net/openhft/chronicle/threads/YieldingPauser.java
* /opt/cola/permits/1618782832_1684405334.3065124/0/chronicle-threads-2-17-2-sources-1-
jar/net/openhft/chronicle/threads/LongPauser.java
* /opt/cola/permits/1618782832_1684405334.3065124/0/chronicle-threads-2-17-2-sources-1-
jar/net/openhft/chronicle/threads/LightPauser.java
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\* /opt/cola/permits/1618782832\_1684405334.3065124/0/chronicle-threads-2-17-2-sources-1-jar/net/openhft/chronicle/threads/NamedThreadFactory.java

# 1.817 chronicle-wire 2.17.32

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\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/WireObjectOutput.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/SerializationStrategy.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/VanillaMethodWriterBuilder.java  
\*

/opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/KeyedMarshallable.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/ObjectIntObjectConsumer.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/HeadNumberChecker.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/MarshallableIn.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/ScalarStrategy.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/SourceContext.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/TriConsumer.java  
\*  
/opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/BracketType.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/WireDumper.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/UnrecoverableTimeoutException.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/SerializationStrategies.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/WireObjectInput.java  
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\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/Quotes.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/ParameterizeWireKey.java

\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/BinaryWireCode.java  
\*  
/opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/JSONWire.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/AbstractWire.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/RawWire.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/WireCommon.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/MarshallableParser.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/MessageHistory.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/AbstractMarshallable.java  
\*  
/opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/WireType.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/ReadMarshallable.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/BinaryMethodWriterInvocationHandler.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/Wire.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/DefaultValueIn.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/ValueOut.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/VanillaWireParser.java  
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\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/WireMarshaller.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/DeferredTypeWire.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/VanillaFieldInfo.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/Wires.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/TextStopCharsTesters.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/net/openhft/chronicle/wire/Marshallable.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-

jar/net/openhft/chronicle/wire/FieldInfo.java  
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/opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
jar/net/openhft/chronicle/wire/ValueWriter.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
jar/net/openhft/chronicle/wire/WireSerializedLambda.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
jar/net/openhft/chronicle/wire/BinaryWireHighCode.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
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\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
jar/net/openhft/chronicle/wire/VanillaMessageHistory.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
jar/net/openhft/chronicle/wire/TextWire.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
jar/net/openhft/chronicle/wire/CSVWire.java  
\*  
/opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
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jar/net/openhft/chronicle/wire/ReadAnyWire.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
jar/net/openhft/chronicle/wire/VanillaMethodReader.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
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\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
jar/net/openhft/chronicle/wire/NoDocumentContext.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
jar/net/openhft/chronicle/wire/WireParser.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
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/opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
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\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
jar/net/openhft/chronicle/wire/DocumentContext.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
jar/net/openhft/chronicle/wire/WireParselet.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
jar/net/openhft/chronicle/wire/WriteDocumentContext.java  
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\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
jar/net/openhft/chronicle/wire/ValueInState.java  
\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-  
jar/net/openhft/chronicle/wire/ValueInStack.java

```
*
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* /opt/cola/permits/1618785830_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-
jar/net/openhft/chronicle/wire/QueryWire.java
* /opt/cola/permits/1618785830_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-
jar/net/openhft/chronicle/wire/BinaryReadDocumentContext.java
* /opt/cola/permits/1618785830_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-
jar/net/openhft/chronicle/wire/TextReadDocumentContext.java
* /opt/cola/permits/1618785830_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-
jar/net/openhft/chronicle/wire/AbstractAnyWire.java
* /opt/cola/permits/1618785830_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-
jar/net/openhft/chronicle/wire/WritingMarshaller.java
* /opt/cola/permits/1618785830_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-
jar/net/openhft/chronicle/wire/Demarshallable.java
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*
/opt/cola/permits/1618785830_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-
jar/net/openhft/chronicle/wire/ValueIn.java
* /opt/cola/permits/1618785830_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-
jar/net/openhft/chronicle/wire/WriteValue.java
* /opt/cola/permits/1618785830_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-
jar/net/openhft/chronicle/wire/AbstractMarshallableCfg.java
* /opt/cola/permits/1618785830_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-
jar/net/openhft/chronicle/wire/ReadingMarshaller.java
* /opt/cola/permits/1618785830_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-
jar/net/openhft/chronicle/wire/YamlLogging.java
* /opt/cola/permits/1618785830_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-
jar/net/openhft/chronicle/wire/MarshallableOut.java
* /opt/cola/permits/1618785830_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-
jar/net/openhft/chronicle/wire/WireIn.java
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\* /opt/cola/permits/1618785830\_1684405344.2935321/0/chronicle-wire-2-17-32-sources-1-jar/META-INF/maven/net.openhft/chronicle-wire/pom.xml

# 1.818 compiler 2.3.4

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\* /opt/cola/permits/1618788902\_1683814770.6532145/0/compiler-2-3-4-sources-1-jar/net/openhft/compiler/MyJavaFileManager.java

\* /opt/cola/permits/1618788902\_1683814770.6532145/0/compiler-2-3-4-sources-1-jar/net/openhft/compiler/JavaSourceFromString.java

\* /opt/cola/permits/1618788902\_1683814770.6532145/0/compiler-2-3-4-sources-1-jar/net/openhft/compiler/CompilerUtils.java

\*

/opt/cola/permits/1618788902\_1683814770.6532145/0/compiler-2-3-4-sources-1-jar/net/openhft/compiler/CachedCompiler.java

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\* /opt/cola/permits/1618788902\_1683814770.6532145/0/compiler-2-3-4-sources-1-jar/META-INF/maven/net.openhft/compiler/pom.xml

## 1.819 google-http-client-jackson2 1.31.0

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\* /opt/cola/permits/1618783928\_1684405327.0109138/0/google-http-client-jackson2-1-31-0-sources-2-jar/com/google/api/client/json/jackson2/package-info.java  
\* /opt/cola/permits/1618783928\_1684405327.0109138/0/google-http-client-jackson2-1-31-0-sources-2-jar/com/google/api/client/json/jackson2/JacksonParser.java  
\* /opt/cola/permits/1618783928\_1684405327.0109138/0/google-http-client-jackson2-1-31-0-sources-2-jar/com/google/api/client/json/jackson2/JacksonFactory.java  
\*  
/opt/cola/permits/1618783928\_1684405327.0109138/0/google-http-client-jackson2-1-31-0-sources-2-jar/com/google/api/client/json/jackson2/JacksonGenerator.java

## 1.820 classindex 3.8

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\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
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\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/binder/grpc/MetricCollectingServerInterceptor.java  
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jar/io/micrometer/core/instrument/binder/grpc/package-info.java
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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jar/io/micrometer/core/instrument/binder/grpc/MetricCollectingClientCall.java
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jar/io/micrometer/core/instrument/internal/OnlyOnceLoggingDenyMeterFilter.java
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- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/annotation/package-info.java
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- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/jersey/server/ jersey/ JerseyKeyValues.java
- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/observation/package-info.java
- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/hystrix/package-info.java
- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/jersey/server/DefaultJerseyObservationConvention.java
- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/DefaultHttpClientObservationConvention.java
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- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/jvm/package-info.java
- \*
- /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/lang/package-info.java
- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-



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jar/io/micrometer/core/instrument/binder/http/HttpJakartaServletRequestTagsProvider.java
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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*
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/binder/httpcomponents/ApacheHttpClientContext.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/observation/ObservationOrTimerCompatibleInstrumentation.java

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\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/jersey/server/JerseyObservationDocumentation.java  
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\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/Counter.java

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/opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/cache/EhCache2Metrics.java

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\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/simple/SimpleConfig.java

\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/ImmutableTag.java

\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/internal/TimedExecutor.java

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/opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmMemoryMetrics.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/aop/CountedAspect.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/distribution/pause/ClockDriftPauseDetector.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/system/DiskSpaceMetrics.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/Tag.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/distribution/HistogramSupport.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/config/MeterRegistryConfig.java  
\*  
/opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/distribution/CountAtBucket.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/search/RequiredSearch.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardMeterRegistry.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/util/HierarchicalNameMapper.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/annotation/Incubating.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/distribution/TimeWindowFixedBoundaryHistogram.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/search/package-info.java  
\*  
/opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/distribution/Histogram.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/jersey/server/TimedFinder.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/step/StepDouble.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/jvm/ExecutorServiceMetrics.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmThreadMetrics.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/system/ProcessorMetrics.java  
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/opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/db/PostgreSQLDatabaseMetrics.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/composite/CompositeLongTaskTimer.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-

jar/io/micrometer/core/instrument/MeterRegistry.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/config/package-info.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/composite/CompositeTimer.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/cumulative/package-info.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/distribution/AbstractTimeWindowHistogram.java  
\*  
/opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/composite/CompositeDistributionSummary.java  
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jar/io/micrometer/core/instrument/simple/CountingMode.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/noop/NoopLongTaskTimer.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/noop/NoopDistributionSummary.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/dropwizard/DropwizardFunctionCounter.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/search/MeterNotFoundException.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/annotation/TimedSet.java  
\*  
/opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
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jar/io/micrometer/core/instrument/composite/CompositeCustomMeter.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/dropwizard/package-info.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/distribution/PercentileHistogramBuckets.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/logging/package-info.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/Metrics.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/step/package-info.java  
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/opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/distribution/DistributionStatisticConfig.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/binder/cache/package-info.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/Tags.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/cumulative/CumulativeDistributionSummary.java

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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/util/AbstractPartition.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/binder/MeterBinder.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/dropwizard/DropwizardCounter.java
*
/opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/dropwizard/DropwizardConfig.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/noop/NoopMeter.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/util/package-info.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/composite/CompositeTimeGauge.java
*
/opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/config/NamingConvention.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/dropwizard/DropwizardGauge.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/binder/tomcat/TomcatMetrics.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/binder/jpa/HibernateMetrics.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/dropwizard/DropwizardClock.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/util/DoubleFormat.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/config/MeterFilterReply.java
*
/opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/binder/cache/CaffeineCacheMetrics.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/composite/CompositeFunctionTimer.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/binder/okhttp3/DefaultOkHttpObservationConvention.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/util/StringEscapeUtils.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/binder/jvm/DiskSpaceMetrics.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/internal/DefaultGauge.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-

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jar/io/micrometer/core/instrument/binder/db/DatabaseTableMetrics.java  
\*  
/opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/binder/jersey/server/MetricsApplicationEventListener.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/AbstractTimer.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/binder/okhttp3/OkHttpObservationConvention.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/binder/system/UptimeMetrics.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/config/InvalidConfigurationException.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/util/StringUtils.java  
\*  
/opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/binder/package-info.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/distribution/HistogramSnapshot.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/step/StepRegistryConfig.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/binder/jersey/server/JerseyTagsProvider.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/search/Search.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/simple/package-info.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/distribution/pause/PauseDetector.java  
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/opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
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\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/MockClock.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/AbstractDistributionSummary.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/binder/BaseUnits.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/binder/cache/JCacheMetrics.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/binder/system/FileDescriptorMetrics.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/binder/cache/CacheMeterBinder.java  
\*  
/opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/binder/cache/HazelcastCacheMetrics.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-



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jar/io/micrometer/core/instrument/binder/jetty/JettyStatisticsMetrics.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/config/MissingRequiredConfigurationException.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/noop/package-info.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/binder/okhttp3/OkHttpObservationDocumentation.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/step/StepDistributionSummary.java
*
/opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/internal/Mergeable.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/step/StepMeterRegistry.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/internal/DefaultLongTaskTimer.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/binder/okhttp3/OkHttpContext.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/composite/CompositeGauge.java
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/noop/NoopCounter.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/binder/okhttp3/OkHttpObservationInterceptor.java
*
/opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/composite/AbstractCompositeMeter.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/cumulative/CumulativeTimer.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/distribution/package-info.java

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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/binder/hystrix/HystrixMetricsBinder.java
*
/opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/distribution/NoopHistogram.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/Measurement.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/Gauge.java
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```

Found in path(s):

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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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*
/opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/push/PushRegistryConfig.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/push/PushMeterRegistry.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/ipc/http/URLConnectionSender.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/logging/LoggingRegistryConfig.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
jar/io/micrometer/core/instrument/binder/kafka/KafkaConsumerMetrics.java
* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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jar/io/micrometer/core/instrument/MultiGauge.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/ipc/http/HttpSender.java  
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/opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/ipc/http/OkHttpSender.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-  
jar/io/micrometer/core/instrument/StrongReferenceGaugeFunction.java  
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jar/io/micrometer/core/instrument/kotlin/AsContextElement.kt  
\*  
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- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmHeapPressureMetrics.java
- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/jetty/JettySslHandshakeMetrics.java
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- /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/db/JooqExecuteListener.java
- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/http/HttpRequestTags.java
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- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/distribution/TimeWindowSum.java
- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/kafka/KafkaClientMetrics.java
- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/http/Outcome.java
- \*
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- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/HttpContextUtils.java
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- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/okhttp3/OkHttpConnectionPoolMetrics.java
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- /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/config/validate/Validated.java
- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyClientMetrics.java
- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyClientTags.java
- \* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/instrument/config/validate/PropertyValidator.java

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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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*
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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* /opt/cola/permits/1622819236_1680247426.8203998/0/micrometer-core-1-10-5-sources-
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jar/io/micrometer/core/util/internal/logging/package-info.java

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\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/util/internal/logging/Slf4JLoggerFactory.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/util/internal/logging/AbstractInternalLogger.java  
\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/util/internal/logging/JdkLoggerFactory.java  
\*  
/opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/io/micrometer/core/util/internal/logging/InternalLoggerFactory.java  
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\* /opt/cola/permits/1622819236\_1680247426.8203998/0/micrometer-core-1-10-5-sources-jar/META-INF/native-image/io.micrometer/micrometer-core/native-image.properties

## 1.822 micrometer-observation 1.10.5

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\* /opt/cola/permits/1622819221\_1680247404.5185094/0/micrometer-observation-1-10-5-sources-jar/io/micrometer/observation/transport/Kind.java

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\* /opt/cola/permits/1622819221\_1680247404.5185094/0/micrometer-observation-1-10-5-sources-jar/io/micrometer/observation/NoopObservation.java

\* /opt/cola/permits/1622819221\_1680247404.5185094/0/micrometer-observation-1-10-5-sources-jar/io/micrometer/observation/annotation/package-info.java

\* /opt/cola/permits/1622819221\_1680247404.5185094/0/micrometer-observation-1-10-5-sources-jar/io/micrometer/observation/NoopObservationRegistry.java

\*/  
/opt/cola/permits/1622819221\_1680247404.5185094/0/micrometer-observation-1-10-5-sources-jar/io/micrometer/observation/transport/RequestReplyReceiverContext.java

\* /opt/cola/permits/1622819221\_1680247404.5185094/0/micrometer-observation-1-10-5-sources-jar/io/micrometer/observation/docs/package-info.java

\* /opt/cola/permits/1622819221\_1680247404.5185094/0/micrometer-observation-1-10-5-sources-jar/io/micrometer/observation/aop/ObservedAspectObservationDocumentation.java

\* /opt/cola/permits/1622819221\_1680247404.5185094/0/micrometer-observation-1-10-5-sources-jar/io/micrometer/observation/transport/RequestReplySenderContext.java

```

* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/NoopObservationConvention.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/ObservationView.java
*
/opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/GlobalObservationConvention.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/docs/ObservationDocumentation.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/SimpleObservation.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/annotation/Observed.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/ObservationTextPublisher.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/transport/SenderContext.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/contextpropagation/package-info.java
*
/opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/ObservationConvention.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/KeyValuesConvention.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/SimpleObservationRegistry.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/transport/ResponseContext.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/ObservationHandler.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/ObservationRegistry.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/aop/ObservedAspect.java
*
/opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/aop/package-info.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/ObservationPredicate.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/ObservationFilter.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/NoopObservationConfig.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/transport/package-info.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/package-info.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-

```

```
jar/io/micrometer/observation/transport/ReceiverContext.java
*
/opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/Observation.java
* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/transport/Propagator.java
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* /opt/cola/permits/1622819221_1680247404.5185094/0/micrometer-observation-1-10-5-sources-
jar/io/micrometer/observation/contextpropagation/ObservationThreadLocalAccessor.java
```

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to [sudo@sudo.ws](mailto:sudo@sudo.ws).

Ackeret, Matt  
Adler, Mark  
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Andric, Dimitry  
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Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bos, Sander  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
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Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian  
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G., Daniel Richard  
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Hideaki, Yoshifuji  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
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Hutchings, Ben  
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Jorge, Joel Pele  
Jover, Guillem  
Juhani, Timo  
Kikuchi, Ayamura  
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Kasal, Stepan  
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King, Dale  
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Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
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Mallayya, Sangamesh

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Miller, Todd C.  
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Moldung, Jan Thomas  
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Mueller, Andreas  
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Nieusma, Jeff  
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Peslyak, Alexander  
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Petten, Diego Elio  
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Rasch, Gudleik  
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Richards, Matt  
Rossum, Guido van  
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Sato, Yuichi  
Snchez, Wilfredo  
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Schuring, Arno  
Schwarze, Ingo  
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Simon, Thor Lancelot  
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Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho

Chornoivan, Yuri  
Diguez,  
Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
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Karvonen, Jorma  
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Tomat, Fbio  
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# 1.825 libxml2 2.9.10+dfsg-5ubuntu0.20.04.6



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#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
```

```
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
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src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
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src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
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src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
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## 1.830 elasticsearch-sql 6.3.1.5

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## 1.831 flink 1.11.2

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flink-sql-connector-hive-3.1.2

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- com.googlecode.javaewah:JavaEWAH:0.3.2
- com.tdunning:json:1.8
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- io.airlift:aircompressor:0.10
- javax.jdo:jdo-api:3.0.1
- joda-time:joda-time:2.9.9
- net.sf.opencsv:opencsv:2.3
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- org.apache.avro:avro:1.7.7
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- org.apache.hive.shims:hive-shims-common:3.1.2
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- org.apache.hive:hive-common:3.1.2
- org.apache.hive:hive-llap-client:3.1.2
- org.apache.hive:hive-llap-common:3.1.2
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- org.apache.orc:orc-core:1.5.6
- org.apache.orc:orc-shims:1.5.6
- org.apache.orc:orc-tools:1.5.6
- org.apache.parquet:parquet-hadoop-bundle:1.10.0
- org.apache.parquet:parquet-jackson:1.10.0
- org.apache.thrift:libthrift:0.9.3
- org.codehaus.jackson:jackson-core-asl:1.9.13
- org.codehaus.jackson:jackson-mapper-asl:1.9.13
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- com.esotericsoftware:minlog:1.3.0

- com.esotericsoftware:reflectasm:1.10.1

-

com.google.protobuf:protobuf-java:2.5.0

- javolution:javolution:5.5.1

- org.jodd:jodd-core:3.5.2

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flink-sql-client

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- com.amazonaws:amazon-kinesis-producer:0.14.0

- com.amazonaws:aws-java-sdk-core:1.11.754

- com.amazonaws:aws-java-sdk-dynamodb:1.11.603

- com.amazonaws:aws-java-sdk-kinesis:1.11.754

- com.amazonaws:aws-java-sdk-kms:1.11.603

- com.amazonaws:aws-java-sdk-s3:1.11.603

- com.amazonaws:aws-java-sdk-sts:1.11.754

- com.amazonaws:dynamodb-streams-kinesis-adapter:1.5.0

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- org.apache.httpcomponents:httpclient:4.5.9

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- com.fasterxml.jackson.dataformat:jackson-dataformat-cbor:2.10.1
- com.fasterxml.woodstox:woodstox-core:5.0.3
- com.google.guava:guava:21.0
- io.airlift:configuration:0.153
- io.airlift:log:0.153
- io.airlift:stats:0.153
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- org.codehaus.woodstox:stax2-api:3.1.4 (<https://github.com/FasterXML/stax2-api/tree/stax2-api-3.1.4>)

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- org.apache.httpcomponents:httpcore-nio:4.4.12
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- org.apache.lucene:lucene-queryparser:8.3.0
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- com.fasterxml.woodstox:woodstox-core:5.0.3
- com.google.guava:guava:11.0.2
- commons-beanutils:commons-beanutils:1.9.3
- commons-codec:commons-codec:1.10
- commons-collections:commons-collections:3.2.2
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- joda-time:joda-time:2.5
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- org.apache.commons:commons-configuration2:2.1.1
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- org.apache.hadoop:hadoop-auth:3.1.0
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- org.apache.hadoop:hadoop-common:3.1.0
- org.apache.htrace:htrace-core4:4.1.0-incubating
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- org.apache.lucene:lucene-analyzers-common:6.4.2
- org.apache.lucene:lucene-backward-codecs:6.4.2
- org.apache.lucene:lucene-core:6.4.2
- org.apache.lucene:lucene-grouping:6.4.2
- org.apache.lucene:lucene-highlighter:6.4.2
- org.apache.lucene:lucene-join:6.4.2
- org.apache.lucene:lucene-memory:6.4.2
- org.apache.lucene:lucene-misc:6.4.2
- org.apache.lucene:lucene-queries:6.4.2
- org.apache.lucene:lucene-queryparser:6.4.2
- org.apache.lucene:lucene-sandbox:6.4.2
- org.apache.lucene:lucene-spatial:6.4.2
- org.apache.lucene:lucene-spatial-extras:6.4.2
- org.apache.lucene:lucene-spatial3d:6.4.2
- org.apache.lucene:lucene-suggest:6.4.2
- org.elasticsearch:elasticsearch:5.3.3
- org.elasticsearch:securesm:1.1

- 
- org.elasticsearch.client.rest:5.3.3
- org.elasticsearch.client.transport:5.3.3
- org.elasticsearch.plugin:lang-mustache-client:5.3.3
- org.elasticsearch.plugin:percolator-client:5.3.3
- org.elasticsearch.plugin:reindex-client:5.3.3
- org.elasticsearch.plugin:transport-netty3-client:5.3.3
- org.elasticsearch.plugin:transport-netty4-client:5.3.3
- org.yaml:snakeyaml:1.25

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flink-sql-connector-hive-2.2.0

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- javax.jdo:jdo-api:3.0.1
- joda-time:joda-time:2.8.1
- net.sf.opencsv:opencsv:2.3
- org.apache.avro:avro-mapred:1.7.7
- org.apache.avro:avro:1.7.7
- org.apache.commons:commons-lang3:3.1
- org.apache.hive.shims:hive-shims-0.23:2.2.0
- org.apache.hive.shims:hive-shims-common:2.2.0
- org.apache.hive:hive-common:2.2.0
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- org.apache.hive:hive-llap-client:2.2.0
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- org.apache.hive:hive-service-rpc:2.2.0
- org.apache.hive:hive-storage-api:2.3.1
- org.apache.hive:spark-client:2.2.0

- org.apache.parquet:parquet-hadoop-bundle:1.8.1
- org.apache.thrift:libfb303:0.9.3
- org.apache.thrift:libthrift:0.9.3
- org.codehaus.jackson:jackson-core-asl:1.9.13
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- com.googlecode.javaewah:JavaEWAH:0.3.2
- com.tdunning:json:1.8
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- io.airlift:aircompressor:0.8
- javax.jdo:jdo-api:3.0.1
- joda-time:joda-time:2.8.1
- net.sf.opencsv:opencsv:2.3
- org.apache.avro:avro-mapred:1.7.7
- org.apache.avro:avro:1.7.7
- org.apache.commons:commons-lang3:3.1
- org.apache.hive.shims:hive-shims-0.23:2.3.6
- org.apache.hive.shims:hive-shims-common:2.3.6
- org.apache.hive:hive-common:2.3.6
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- org.apache.hive:hive-llap-client:2.3.6
- org.apache.hive:hive-llap-common:2.3.6
- org.apache.hive:hive-metastore:2.3.6
- org.apache.hive:hive-serde:2.3.6

- org.apache.hive:hive-service-rpc:2.3.6
- org.apache.hive:hive-storage-api:2.4.0
- org.apache.hive:spark-client:2.3.6
- org.apache.orc:orc-core:1.3.4
- org.apache.orc:orc-tools:1.3.4
- org.apache.parquet:parquet-hadoop-bundle:1.8.1
- org.apache.parquet:parquet-jackson:1.8.1
- org.apache.thrift:libthrift:0.9.3
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- io.dropwizard.metrics:metrics-core:3.2.6  
- io.dropwizard.metrics:metrics-graphite:3.2.6

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- com.squareup.okio:okio:1.12.0

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- com.datastax.cassandra:cassandra-driver-mapping:3.0.0
- com.google.guava:guava:18.0
- io.netty.netty-buffer:4.1.44.Final
- io.netty.netty-codec:4.1.44.Final
- io.netty.netty-common:4.1.44.Final
- io.netty.netty-handler:4.1.44.Final
- io.netty.netty-resolver:4.1.44.Final
- io.netty.netty-transport:4.1.44.Final

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- org.apache.hadoop:hadoop-auth:3.1.0
- org.apache.hadoop:hadoop-common:3.1.0
- org.apache.htrace:htrace-core4:4.1.0-incubating
- org.apache.commons:commons-configuration2:2.1.1
- org.apache.commons:commons-lang3:3.3.2
- commons-lang:commons-lang:2.6
- commons-collections:commons-collections:3.2.2
- commons-io:commons-io:2.4
- commons-logging:commons-logging:1.1.3
- commons-beanutils:commons-beanutils:1.9.3
- com.google.guava:guava:11.0.2
- com.fasterxml.jackson.core:jackson-annotations:2.10.1
- com.fasterxml.jackson.core:jackson-core:2.10.1
- com.fasterxml.jackson.core:jackson-databind:2.10.1
- com.fasterxml.woodstox:woodstox-core:5.0.3

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- com.google.re2j:re2j:1.1

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- org.codehaus.woodstox:stax2-api:3.1.4 (<https://github.com/FasterXML/stax2-api/tree/stax2-api-3.1.4>)

This project bundles org.apache.hadoop.\*:3.1.0 from which it inherits the following notices:

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For the org.apache.hadoop.util.bloom.\* classes:

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in src/main/native/src/org/apache/hadoop/util:

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\*

\* Abstract: The main routine

\*

--\*/

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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You can contact the author at :

- LZ4 source repository : <http://code.google.com/p/lz4/>

- LZ4 public forum : <https://groups.google.com/forum/#!forum/lz4c>

\*/

For hadoop-common-project/hadoop-common/src/main/native/gtest

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re2j 1.1

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js  
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css

bootstrap v3.3.6

broccoli-asset-rev

v2.4.2

broccoli-funnel v1.0.1

datatables v1.10.8

em-helpers v0.5.13

em-table v0.1.6

ember v2.2.0

ember-array-contains-helper v1.0.2

ember-bootstrap v0.5.1

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ember-cli-app-version v1.0.0

ember-cli-babel v5.1.6

ember-cli-content-security-policy v0.4.0

ember-cli-dependency-checker v1.2.0

ember-cli-htmlbars v1.0.2

ember-cli-htmlbars-inline-precompile v0.3.1

ember-cli-ic-ajax v0.2.1

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ember-cli-jquery-ui v0.0.20

ember-cli-qunit v1.2.1

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ember-cli-shims v0.0.6  
ember-cli-sri v1.2.1  
ember-cli-test-loader v0.2.1  
ember-cli-uglify v1.2.0  
ember-d3 v0.1.0  
ember-data v2.1.0  
ember-disable-proxy-controllers v1.0.1  
ember-export-application-global v1.0.5  
ember-load-initializers v0.1.7  
ember-qunit v0.4.16  
ember-qunit-notifications v0.1.0  
ember-resolver v2.0.3  
ember-spin-spinner v0.2.3  
ember-truth-helpers v1.2.0  
jquery v2.1.4  
jquery-ui v1.11.4  
loader.js v3.3.0  
momentjs v2.10.6  
qunit v1.19.0  
select2 v4.0.0  
snippet-ss  
v1.11.0  
spin.js v2.3.2  
Azure Data Lake Store - Java client SDK 2.0.11  
JCodings 1.0.8  
Joni 2.1.2  
Mockito 1.8.5  
JUL to SLF4J bridge 1.7.25  
SLF4J API Module 1.7.25  
SLF4J LOG4J-12 Binding 1.7.25

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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery  
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- com.aliyun:aliyun-java-sdk-core:jar:3.4.0
- com.aliyun:aliyun-java-sdk-ecs:jar:4.2.0
- com.aliyun:aliyun-java-sdk-ram:jar:3.0.0
- com.aliyun:aliyun-java-sdk-sts:jar:3.0.0
- commons-codec:commons-codec:jar:1.10
- commons-logging:commons-logging:jar:1.1.3
- org.apache.hadoop:hadoop-aliyun:jar:3.1.0
- org.apache.httpcomponents:httpclient:jar:4.5.3
- org.apache.httpcomponents:httpcore:jar:4.4.6
- org.codehaus.jettison:jettison:jar:1.1
- stax:stax-api:1.0.1

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- org.jdom:jdom:1.1

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- com.fasterxml.jackson.core:jackson-databind:2.10.1
- com.fasterxml.jackson.core:jackson-annotations:2.10.1
- com.fasterxml.jackson.core:jackson-core:2.10.1
- io.confluent:common-utils:4.1.0
- io.confluent:kafka-schema-registry-client:4.1.0

- org.apache.zookeeper:zookeeper:3.4.10  
flink-sql-connector-elasticsearch6  
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- com.fasterxml.jackson.dataformat:jackson-dataformat-smile:2.10.1
- com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:2.10.1
- commons-codec:commons-codec:1.10
- commons-logging:commons-logging:1.1.3
- org.apache.httpcomponents:httppasynclclient:4.1.2
- org.apache.httpcomponents:httpClient:4.5.3
- org.apache.httpcomponents:httpcore:4.4.6
- org.apache.httpcomponents:httpcore-nio:4.4.5
- org.apache.lucene:lucene-analyzers-common:7.3.1
- org.apache.lucene:lucene-backward-codecs:7.3.1
- org.apache.lucene:lucene-core:7.3.1
- org.apache.lucene:lucene-grouping:7.3.1
- 
- org.apache.lucene:lucene-highlighter:7.3.1
- org.apache.lucene:lucene-join:7.3.1
- org.apache.lucene:lucene-memory:7.3.1
- org.apache.lucene:lucene-misc:7.3.1
- org.apache.lucene:lucene-queries:7.3.1
- org.apache.lucene:lucene-queryparser:7.3.1
- org.apache.lucene:lucene-sandbox:7.3.1
- org.apache.lucene:lucene-spatial:7.3.1
- org.apache.lucene:lucene-spatial-extras:7.3.1
- org.apache.lucene:lucene-spatial3d:7.3.1
- org.apache.lucene:lucene-suggest:7.3.1
- org.elasticsearch:elasticsearch:6.3.1
- org.elasticsearch:elasticsearch-cli:6.3.1
- org.elasticsearch:elasticsearch-core:6.3.1
- org.elasticsearch:elasticsearch-secure-sm:6.3.1
- org.elasticsearch:elasticsearch-x-content:6.3.1
- org.elasticsearch.client:elasticsearch-rest-client:6.3.1
- org.elasticsearch.client:elasticsearch-rest-high-level-client:6.3.1
- org.elasticsearch.plugin:aggs-matrix-stats-client:6.3.1
- org.elasticsearch.plugin:parent-join-client:6.3.1
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- com.google.code.findbugs:jsr305:1.3.9
- com.twitter:chill-java:0.7.6
- com.twitter:chill\_2.11:0.7.6
- com.typesafe:config:1.3.0
- com.typesafe:ssl-config-core\_2.11:0.3.7
- com.typesafe.akka:akka-actor\_2.11:2.5.21
- com.typesafe.akka:akka-protobuf\_2.11:2.5.21
- com.typesafe.akka:akka-slf4j\_2.11:2.5.21
- com.typesafe.akka:akka-stream\_2.11:2.5.21
- commons-cli:commons-cli:1.3.1
- commons-collections:commons-collections:3.2.2
- commons-io:commons-io:2.4
- org.apache.commons:commons-compress:1.20
- org.apache.commons:commons-lang3:3.3.2
- org.apache.commons:commons-math3:3.5
- org.javassist:javassist:3.24.0-GA
- org.lz4:lz4-java:1.6.0
- org.objenesis:objenesis:2.1
- 
- org.xerial.snappy:snappy-java:1.1.4

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- com.esotericsoftware.kryo:kryo:2.24.0
- com.esotericsoftware.minlog:minlog:1.2
- org.clapper:grizzled-slf4j\_2.11:1.3.2

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- org.scala-lang:scala-compiler:2.11.12
- org.scala-lang:scala-library:2.11.12
- org.scala-lang:scala-reflect:2.11.12
- org.scala-lang.modules:scala-java8-compat\_2.11:0.7.0
- org.scala-lang.modules:scala-parser-combinators\_2.11:1.1.1
- org.scala-lang.modules:scala-xml\_2.11:1.0.5

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- com.github.scopt:scopt\_2.11:3.5.0  
- org.slf4j:slf4j-api:1.7.15

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- javax.activation:javax.activation-api:1.2.0  
-  
javax.xml.bind:jaxb-api:2.3.1

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- org.reactivestreams:reactive-streams:1.0.2

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- com.fasterxml.jackson.core:jackson-databind:2.10.1
- com.google.guava:guava:11.0.2
- com.microsoft.azure:azure-keyvault-core:0.8.0
- com.microsoft.azure:azure-storage:5.4.0
- commons-codec:commons-codec:1.10
- commons-logging:commons-logging:1.1.3
- org.apache.hadoop:hadoop-azure:3.1.0
- org.apache.httpcomponents:httpClient:4.5.3
- org.apache.httpcomponents:httpcore:4.4.6
- org.eclipse.jetty:jetty-util:9.3.24.v20180605
- org.eclipse.jetty:jetty-util-ajax:9.3.24.v20180605

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- org.apache.hadoop:hadoop-auth:2.8.1
- org.apache.hadoop:hadoop-client:2.8.1
- org.apache.hadoop:hadoop-common:2.8.1
- org.apache.hadoop:hadoop-hdfs:2.8.1
- org.apache.hadoop:hadoop-hdfs-client:2.8.1
- org.apache.hadoop:hadoop-openstack:2.8.1
- org.apache.htrace:htrace-core4:4.0.1-incubating
- org.apache.httpcomponents:httpClient:4.5.3
- org.apache.httpcomponents:httpcore:4.4.6
- org.apache.commons:commons-compress:1.20
- org.apache.commons:commons-math3:3.5
- commons-beanutils:commons-beanutils:1.8.3
- commons-cli:commons-cli:1.3.1



- commons-codec:commons-codec:1.10
- commons-collections:commons-collections:3.2.2
- commons-configuration:commons-configuration:1.7
- 
- commons-digester:commons-digester:1.8.1
- commons-io:commons-io:2.4
- commons-lang:commons-lang:2.6
- commons-logging:commons-logging:1.1.3
- commons-net:commons-net:3.1
- commons-httpclient:commons-httpclient:3.1
- com.google.guava:guava:11.0.2
- com.google.code.gson:gson:2.2.4
- com.squareup.okhttp:okhttp:2.4.0
- com.squareup.okio:okio:1.4.0
- net.minidev:json-smart:1.1.1
- com.nimbusds:nimbus-jose-jwt:3.9
- org.mortbay.jetty:jetty-sslengine:6.1.26
- org.codehaus.jackson:jackson-core-asl:1.9.13
- org.codehaus.jackson:jackson-mapper-asl:1.9.13

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- xmlenc:xmlenc:0.52
- com.google.protobuf:protobuf-java:2.5.0

This project bundles "net.jcip:jcip-annotations:1.0".

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For the org.apache.hadoop.util.bloom.\* classes:

```
/**
 *
```

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 \*/

For portions of the native implementation of slicing-by-8 CRC calculation  
 in `src/main/native/src/org/apache/hadoop/util`:

```
/**
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 * BSD-style license that can be found in the LICENSE file.
 */
```

For `src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c}`,

```
/*
LZ4 - Fast LZ compression algorithm
Header File
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```

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You can contact the author at :

- LZ4 source repository : <http://code.google.com/p/lz4/>

- LZ4 public forum : <https://groups.google.com/forum/#!forum/lz4c>

\*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js  
-----

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css

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SLF4J 1.7.10

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-1.10.2.min.js  
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js

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- io.prometheus:simpleclient\_common:0.8.1
- io.prometheus:simpleclient\_httpserver:0.8.1
- io.prometheus:simpleclient\_pushgateway:0.8.1

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- com.twitter:hbc-core:2.2.0
- com.twitter:joauth:6.0.2
- org.apache.httpcomponents:httpClient:4.5.3
- org.apache.httpcomponents:httpcore:4.4.6

flink-sql-connector-hive-1.2.2

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- org.apache.hive:hive-exec:1.2.2
- org.apache.hive:hive-metastore:1.2.2
- org.apache.orc:orc-core:nohive:1.4.3
- org.apache.thrift:libfb303:0.9.2

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- com.googlecode.javaewah:JavaEWAH:0.3.2
- com.twitter:parquet-hadoop-bundle:1.6.0
- commons-lang:commons-lang:2.6
- joda-time:joda-time:2.5
- net.sf.opencsv:opencsv:2.3
- org.apache.avro:avro-mapred:1.7.5
- org.apache.avro:avro:1.7.5
- org.apache.commons:commons-lang3:3.1
- org.apache.hive.shims:hive-shims-0.20S:1.2.2
- 
- org.apache.hive.shims:hive-shims-0.23:1.2.2
- org.apache.hive.shims:hive-shims-common:1.2.2
- org.apache.hive:hive-common:1.2.2
- org.apache.hive:hive-serde:1.2.2
- org.apache.hive:spark-client:1.2.2
- org.apache.thrift:libthrift:0.9.2
- org.codehaus.jackson:jackson-core-asl:1.9.2
- org.codehaus.jackson:jackson-mapper-asl:1.9.2
- org.iq80.snappy:snappy:0.2
- org.objenesis:objenesis:1.2

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  - com.esotericsoftware.minlog:minlog:1.2
  - com.esotericsoftware.reflectasm:reflectasm:1.07
  - com.google.protobuf:protobuf-java:2.5.0
  - javolution:javolution:5.5.1
  - org.jodd:jodd-core:3.5.2
- flink-sql-parquet

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- org.apache.parquet:parquet-column:1.10.0
- org.apache.parquet:parquet-common:1.10.0
- org.apache.parquet:parquet-encoding:1.10.0
- org.apache.parquet:parquet-format:2.4.0
- org.codehaus.jackson:jackson-mapper-asl:1.9.13
- org.codehaus.jackson:jackson-core-asl:1.9.13
- commons-pool:commons-pool:1.6

- commons-codec:commons-codec:1.10  
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flink-sql-connector-kafka-0.11

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- com.github.fommil.netlib:core:1.1.2

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- cloudpickle:1.2.2

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- org.apache.mesos:mesos:1.0.1
- com.fasterxml.jackson.core:jackson-annotations:2.10.1
- com.fasterxml.jackson.core:jackson-core:2.10.1
- com.fasterxml.jackson.core:jackson-databind:2.10.1

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- com.google.protobuf:protobuf-java:2.6.2

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flink-kubernetes

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flink-runtime-web

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Source: <https://github.com/mbostock/rw>

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(fs.realpath 1.0.0, isaacs/once 1.4.0, minimatch 3.0.4, node-glob v7.1.3)

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(wrappy 1.0.2)

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(d3-voronoi v1.1.4)

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(parse5 5.1.0)

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(repeat-string 1.6.1)

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(rollup 0.25.8)

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(path-parse 1.0.6)

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(define-properties v1.1.3)

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(es-to-primitive 1.2.0, is-date-object 1.0.1, is-symbol 1.0.2, string.prototype.trim 1.1.2)

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(fecha  
2.3.3)

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(lazy-cache 1.0.4)

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(is-buffer 1.1.6)

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(ansi-regex 2.1.1, camelcase 1.2.1, Decamelize 1.2.0, escape-string-regexp 1.0.5, has-ansi 2.0.0, path-is-absolute 1.0.1, sindresorhus/ansi-styles 2.2.1, sindresorhus/supports-color 2.0.0, Strip ANSI 3.0.1)

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(defined 1.0.0, minimist 1.2.0, node-concat-map 0.0.1, node-deep-equal 1.0.1, object-inspect 1.6.0, resumer 0.0.0)

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JSR 311 API (<https://jsr311.dev.java.net/>) javax.ws.rs:jsr311-api:jar:1.0:compile  
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Sun SAAJ Reference Implementation (<http://java.net/saaj-impl/saaj-impl>) com.sun.xml.messaging.saaj:saaj-

impl:jar:1.3.12:compile

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org.eclipse.jetty.aggregate:jetty-all-server:jar:7.4.2.v20110526

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MIME streaming extension org.jvnet:mimepull:jar:1.4

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XMLTooling-J (<http://opensaml.org/>) org.opensaml:xmltooling:jar:1.3.2-1

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OPS4J Pax Web - Jetty (<http://www.ops4j.org/projects/pax/web/pax-web-jetty/>) org.ops4j.pax.web:pax-web-jetty:bundle:1.0.3

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OPS4J Pax Web - Runtime (<http://www.ops4j.org/projects/pax/web/pax-web-runtime/>) org.ops4j.pax.web:pax-web-runtime:bundle:1.0.3

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Simple Logging Facade for Java - API (<http://www.slf4j.org/slf4j-api>) org.slf4j:slf4j-api:jar:1.6.2:compile

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#### Spring

OSGi Core (<http://www.springframework.org/osgi>) org.springframework.osgi:spring-osgi-core:bundle:1.2.1

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icon-security.png (originally dialog-warning.png)  
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

work.

(Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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# 1.843 librepo 1.14.2-4.el8

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Version 2.1, February 1999

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the

object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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## 1.848 aop-alliance 2.6.1

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{\colortbl;\red255\green255\blue255;\red0\green0\blue0;}
{\*\expandedcolortbl;;\cssrgb\c0\c0\c0;}
\paperw11900\paperh16840\margl1440\margr1440\vieww10800\viewh8400\viewkind0
\defstab720
\pard\pardefstab720\sl280\partightenfactor0

\f0\fs24 \cf2 \expnd0\expndtw0\kerning0
\outl0\strokewidth0 \strokec2 This XML file does not appear to have any style information associated with it. The
document tree is shown below.\
\pard\pardefstab720\sl300\partightenfactor0

\f1\fs26 \cf2 <!--\
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```

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\
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\
-->\
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-
v4_0_0.xsd">\
<modelVersion>4.0.0</modelVersion>\
<parent>\
<groupId>org.glassfish.hk2</groupId>\
<artifactId>external</artifactId>\
<version>2.6.1</version>\
</parent>\
<groupId>org.glassfish.hk2.external</groupId>\
<artifactId>aopalliance-repackaged</artifactId>\
<name>\
aopalliance version ${aopalliance.version} repackaged as a module\
</name>\
<build>\
<plugins>\
<plugin>\
<groupId>org.apache.maven.plugins</groupId>\
<artifactId>maven-dependency-plugin</artifactId>\
<executions>\
<execution>\
<id>step1-unpack-sources</id>\
<phase>process-sources</phase>\
<goals>\
<goal>unpack</goal>\
</goals>\
<configuration>\
<artifactItems>\
<artifactItem>\
<groupId>aopalliance</groupId>\
<artifactId>aopalliance</artifactId>\
<version>${aopalliance.version}</version>\
<classifier>sources</classifier>\
<overwrite>>false</overwrite>\
<outputDirectory>${project.build.directory}/alternateLocation</outputDirectory>\
</artifactItem>\
</artifactItems>\
</configuration>\
</execution>\
</executions>\
</plugin>\
<plugin>\
<groupId>org.codehaus.mojo</groupId>\

```



```

<artifactId>build-helper-maven-plugin</artifactId>\
<executions>\
<execution>\
<id>step2-add-sources</id>\
<phase>process-sources</phase>\
<goals>\
<goal>add-source</goal>\
</goals>\
<configuration>\
<sources>\
<source>${project.build.directory}/alternateLocation</source>\
</sources>\
</configuration>\
</execution>\
</executions>\
</plugin>\
<plugin>\
<groupId>org.apache.felix</groupId>\
<artifactId>maven-bundle-plugin</artifactId>\
<configuration>\
<instructions>\
<Embed-Dependency>\a0*;scope=compile;inline=true\a0</Embed-Dependency>\
<!--\

```

We set a mandatory attribute for these packages, because we don't want them to be visible to just anyone. An importer must specify the mandatory attribute for it to be able to import. See section #3.6.5 of OSGi R4 spec.

Why is this required?  
See [https://glassfish.dev.java.net/issues/show\\_bug.cgi?id=5385](https://glassfish.dev.java.net/issues/show_bug.cgi?id=5385)  
By doing this, we allow user have any version of apache-commons lib in their application class loader hierarchy. They don't even have to set delegation=false in sun-web.xml! This is the true advantage of using OSGi.

Sahoo.\

```

\
-->\
<Export-Package>org.aopalliance.*;version=${aopalliance.version}</Export-Package>\
<Private-Package>!*</Private-Package>\
</instructions>\
</configuration>\
<executions>\
<execution>\
<id>osgi-manifest</id>\
<phase>process-classes</phase>\
<goals>\
<goal>manifest</goal>\
</goals>\
</execution>\

```

```

</executions>\
</plugin>\
</plugins>\
</build>\
<dependencies>\
<dependency>\
<groupId>aopalliance</groupId>\
<artifactId>aopalliance</artifactId>\
<version>${aopalliance.version}</version>\
<optional>>true</optional>\
</dependency>\
</dependencies>\
</project>\
}

```

Found in path(s):

\* /opt/cola/permits/1688041658\_1684928894.4895442/0/aopalliance-2-6-1-zip/aopalliance-2.6.1.rtf

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The End

Perl5 Metaconfig Units

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These units are the ones used to build Configure and config\_h.SH in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you installed dist). It will then recurse through the 'U' subdirectory and find any additional "private" units. Private units override standard ones supplied with metaconfig.



Files in this directory:

#### README

This file.

#### Glossary.patch

The standard dist units contain some strings that make pod2man complain. This patch silences those warnings. As new units are added and Configure is regenerated, this patch may need more and more 'fuzz' to be applied. It should be freshly regenerated every once in a while. See also mkgloss.pl

#### In-all.pl

Re-generate the all/ folder

#### mkglossary

A script to regenerate Porting/Glossary. You have to manually edit

the top of the script to point the location of your metaconfig units. It is called automatically by 'mksample'. See also mkgloss.pl

#### mkgloss.pl

A perl script that calls U/mkglossary from the perl source tree, sorts the list of symbols, and applies the patch mentioned in Glossary.patch. When called on its own, redirect the output to a temporary file, and compare that file to Porting/Glossary before applying.

#### mksample

A script to regenerate Porting/config.sh and Porting/config.H. It also calls mkglossary, if necessary.

#### Subdirectories:

The units and other related files have been broken up into the following directories.

#### a\_dvisory/

These are units that have to go first in the generated config\_h.SH.

A word of explanation: Configure and config\_h.SH are generated from 'Units' (the \*.U files). Files indicate dependencies (using make(1)), and Configure is built to follow those dependencies. However, config\_h.SH is simply built by putting all the units in alphabetical order and extracting the relevant lines. (This could be fixed, I suppose, but it wasn't trivial the one time I looked.)

The a\_dvisory/ directory, then, is a place to put units that need to be early in config\_h.SH. (Most units are self-contained

and ought to be able to go anywhere. However, some things, like byteorder, need to have the #defines from multiarch available.)

acl/

This is an old patch to begin to detect and use ACL (access control list) file protection schemes.

all/

A folder that conveniently holds symbolic links to all the modules that are used to build the current Configure and config\_h.SH.

compline/

These are similar to the standard units, but I have modified them to have a more uniform compile command line, usually using the new Compile.U unit. (The ccflags.U unit is perl-specific since it mentions -DDEBUGGING and -DPOSIX\_SOURCE, but that's the only place it is perl-specific.)

dist\_patches/

These are patches to dist that must be applied before it is built and installed. I have submitted these for inclusion in the regular dist distribution. They have already been applied to the ../dist-3.0at70b directory.

ebcdic/

These are units that had to be specially modified to work under either EBCDIC or ASCII.

installdirs/

These are units to handle perl's installation directories and related issues.

modified/

These are modified versions of the standard units. Also included in this directory are new units that are clearly derived from existing units. I have submitted these for inclusion in the regular dist distribution.

nullified/

These are null units that replace units in the standard distribution. Typically they are there because some part of the perl source accidentally uses a symbol that metaconfig thinks means we want the corresponding unit.

perl/

These are specific to perl. Some are heavily derived from original dist units, and are marked as such. Others are original.

#### perl\_patches/

These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

#### protos/

These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes.

#### threads/

These are specific to threading perl.

#### typedefs/

These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typedef being searched for exists.)

Where appropriate, I submitted these units for inclusion into the regular dist distribution. However, since dist is no longer actively maintained, and the alternative is for \*me\* to actively maintain it, the units just sit here.

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## 1.854 slf4j-impl 2.17.1

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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```
<program> Copyright (C) <year> <name of author>  
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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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# 1.859 ncurses 6.2-0ubuntu2.1

## 1.859.1 Available under license :

Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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Files: \*

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-- vile: txtmode file-encoding=utf-8

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```
-- vile:txtmode fc=72
-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.
```

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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Files: progs/tset.c ncurses/tinfo/read\_termcap.c

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-- vile: txtmode file-encoding=utf-8

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-- vile: txtmode file-encoding=utf-8

# 1.860 libssh 0.9.6-10.el8\_8

## 1.860.1 Available under license :

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jar/org/springframework/expression/spel/ast/VariableReference.java

\* /opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-  
jar/org/springframework/expression/spel/ast/OpPlus.java

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/opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-  
jar/org/springframework/expression/spel/support/ReflectiveMethodResolver.java

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\* /opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/standard/SpelExpressionParser.java  
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\* /opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/SpelParserConfiguration.java  
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\* /opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ExpressionState.java  
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/opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/SpelMessage.java  
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/opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-jar/org/springframework/expression/ConstructorExecutor.java  
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jar/org/springframework/expression/BeanResolver.java  
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jar/org/springframework/expression/spel/CodeFlow.java  
\* /opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-  
jar/org/springframework/expression/spel/support/StandardTypeConverter.java  
\* /opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-  
jar/org/springframework/expression/spel/ast/QualifiedIdentifier.java  
\* /opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-  
jar/org/springframework/expression/TypeComparator.java  
\*  
/opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-  
jar/org/springframework/expression/TypeConverter.java  
\* /opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-  
jar/org/springframework/expression/spel/standard/Token.java  
\* /opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-  
jar/org/springframework/expression/spel/ast/InlineMap.java  
\* /opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-  
jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java  
\* /opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-  
jar/org/springframework/expression/spel/ast/TypeReference.java  
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jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java

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\* /opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-  
jar/org/springframework/expression/AccessException.java  
\* /opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-  
jar/org/springframework/expression/OperatorOverloader.java  
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\* /opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-  
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jar/org/springframework/expression/ParserContext.java  
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jar/org/springframework/expression/spel/standard/TokenKind.java  
\* /opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-  
jar/org/springframework/expression/EvaluationException.java  
\*

/opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-  
jar/org/springframework/expression/ConstructorResolver.java  
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jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java  
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\* /opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-  
jar/org/springframework/expression/spel/standard/SpelCompiler.java

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\* /opt/cola/permits/1733954530\_1688013067.974324/0/spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/standard/SpelExpression.java

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gremlin-core/src/main/java/org/apache/tinkerpop/gremlin/structure/io/graphml/GraphMLWriterHelper.java  
contains DelegatingXMLStreamWriter.java and IndentingXMLStreamWriter.java from  
<https://github.com/Activiti/Activiti/tree/activiti-5.16/modules/activiti-bpmn-converter/src/main/java/org/activiti/bpmn/converter>

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gremlin-server/src/main/java/org/apache/tinkerpop/gremlin/server/auth/JaasKrbUtil.java

from

<https://github.com/apache/directory-kerby/blob/kerby-all-1.0.0/kerby-kerb/kerb-simplekdc/src/main/java/org/apache/kerby/kerberos/kerb/client/JaasKrbUtil.java>

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```
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
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```

```
package spec
```

```
import "testing"
```

```
func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url\n"
```

```
    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}
```

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Janino - An embedded Java[™] compiler

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SQLLine - Shell for issuing SQL to relational databases via JDBC

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## 1.877 react-dates 15.2.0

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## 1.878 react-jsonschema-form 1.0.0

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V6C,EA AW5V,EAAG6V,UACdpc,EAAUuG,EAAG9rB,OAAO2gC,GACpBkB,EA AiB/V,EAAGtC,cAAgB,IAA MmX,EAC1CmB,GAAiBhW,EAAG1J,KAAKvF,UACzBgL,EAAQ,QAAU6Z,GAAY,IAC9BK,EAAS,QAAUN,C AEvB,IAAe,KAAxlC,GAA6B,MAAXA,EACHBuG,EAAG3C,QACLzE,EAASoH,EAAGnH,MACZujB,EA AW,a AEXxjB,EAASoH,EAAGzyB,KAAK2G,OAAO0kB,UAAW,EACnCWjB,EA AW,sBAER,CACL,GAAIC,GAAUrc ,EAAGpC,WAAWoC,EAAG9F,OAAQT,EAASuG,EAAG3C,OACnD,IAAgB/qB,SAAZ+pC,EA AuB,CACzB,GA AIC,GAAWtc,EAAGhD,gBAAgB7N,QAAQ6Q,EAAG9F,OAAQT,EACrD,IAA2B,QAAvBuG,EAAG1J,KAAKi mB,YAAuB,CACjC3oC,QAAQC,MAAMyoC,EACd,IAAIpG,GAAaA,KACjBA,GAAWzyB,KAAKymB,GACHB A,EAAM,GACFIK,EAAGmW,gBAAiB,GACtBjM,GAAO,qDAAwEIK,EAAGrC,UAAa,kBAAqBqC,EAAGxJ,K AAKmJ,eAAeoW,GAAmB,sBAA0B/V,EAAGxJ,KAAKgyY,aAAa/U,GAAY,OACrNuG,EAAG1J,KAAK8f,YAAa, IACvBIM,GAAO,0CAA+CIK,EAAGxJ,KAAKgyY,aAAa/U,GAAY,MAErFuG,EAAG1J,KAAK+f,UACVnM,GAA O,cAAiBIK,EAAGxJ,KAAKmJ,eAAelG,GAAY,mCAAsCuG,EAAGvC,WAAc,YAAe1B,EAAS,KA E5ImO,GAA O,OAEPa,GAAO,MAET,IAAIoM,GAAQpM,CACZA,GAAMgM,EA AWryB,MAGbqmB,IAFClK,EAAGuW,eA AiBP,EACnBhW,EAAGnH,MACE,+BAAKCyD,EAAS,OAE3C,uBAA0BA,EAAS,oBAGrC,cAAiBA,EAAS,+EAE /BN,IACF9L,GAAO,sBAEJ,IAA2B,UAAvBIK,EAAG1J,KAAKimB,YAMjB,KAAM,IAAIvc,GAAGhD,gBAAgB gD,EAAG9F,OAAQT,EAAS6iB,EALjD1oC,SAAQkJ,KAAKw/B,GACTtG,IACF9L,GAAO,sBAKN,IAAIms,EA AQ7c,OAAQ,CACzB,GAAIgd,GAAMxc,EAAGxJ,KAAKC,KAAKuJ,EACvBwc,GAAlzJ,OACJ,IAAI0J,GAAa,Q AAUD,EAAlzJ,KAC/ByJ,GAAItOC,OAASmoC,EAAQnoC,OACrBsoC,EAAl/e,WAAa,GACjB+e,EAAl9e,cAAg BjE,CACpB,IAAImf,GAAQ5Y,EAAGztB,SAASiqC,GAAK3iC,QAAQ,oBAAqBwiC,EAQ1d,KACIEuL,IAAO,I AAO0O,EAAS,IACnB5C,IACF9L,GAAO,QAAWuS,EAAC,YAGlC7jB,GAASyJB,EAQzjB,UAAW,EAC5BwjB ,EAAWC,EAQ1d,KAGvB,GAAIyd,EAAU,CACZ,GAAIIG,GAAaA,KACjBA,GAAWzyB,KAAKymB,GACHB A,EAAM,GAEJA,GADEIK,EAAG1J,KAAKomB,YACH,IAAON,EAAY,eAEnB,IAAOA,EAAY,KA E5BIS,GAA O,IAAOnO,EAAS,qBACH,MAAhBiE,EAAGrC,YACLUM,GAAO,MAASIK,EAAGrC,UAErB,IAAI+Z,GAAc9B, EA AW,QAAWA,EA AW,GAAM,IAAM,aAC7D+B,EAASB/B,EA AW5V,EAAG0W,YAAYd,GAAY,oBAC9D1L, IAAO,MAASwN,EA Ae,MAASC,EA AuB,eAC/D,IAAIgF,GAAiBzS,CAErB,IADAA,EAAMgM,EA AWryB,MAC b+U,EA AQ,CACV,IAAKoH,EAAGnH,MAAO,KAAM,IAAInf,OAAM,yCAC3Bs8B,KACF9L,GAAO,QA AW+L, EAAU,MAE9B/L,GAAO,UAAaIK,EAAGyV,WAAc,IAAOkH,EA AkB,KAC1D3G,IACF9L,GAAO,IAAO+L,EA AU,aAE1B/L,GAAO,4KACH8L,IACF9L,GAAO,IAAO+L,EAAU,cAE1B/L,GAAO,MACH8L,IACF9L,GAAO,Q AA W+L,EAAU,YAG9B/L,IAAO,SAAYyS,EA AkB,uCAA0CP,EAAY,0CAA6CA,EAAY,wCACHjP,G,IACF9L,G AA O,YAIb,MAAOA,K3Cy+OH,SAASx8B,EA AQD,G4ClmPvB,YACAC,GAAOD,QAAU,SA AwBuyB,EAAl6U, EAAUC,GACrD,GAAI5K,GAAM,IACNzQ,EAAUuG,EAAG9rB,OAAO2gC,GACpBiB,EAAC9V,EAAGvC,WA AauC,EAAGxJ,KAAK8X,YAAYuG,GACIDkB,EA AiB/V,EAAGtC,cAAgB,IAAMmX,EAC1CmB,GAAiBhW,EA AG1J,KAAKvF,UACzByrB,EAAMxc,EAAGxJ,KAAKC,KAAKuJ,GACnB4c,EA AiB,EACrBJ,GAAIzJ,OACJ,IA AI0J,GAAa,QAAUD,EAAlzJ,MAC3B8J,EA AiBL,EAAltiB,OACvB4iB,GAAmB,EACjBxF,EA AO7d,CACX,IAA I6d,EAGF,IAFA,GAAIe,GAAMb,GA AK,EACbC,EA AKH,EA AKzmC,OAAS,EACd2mC,EA AKC,GACVY,EA AOf,EA AKE,GAAM,GACdxX,EAAGxJ,KAAKoZ,eAAeyI,EAAMrY,EAAG1I,MAAMie,OACxCuH,GAAmB,EA CnBN,EAAltoC,OAASmkC,EACbmE,EAAl/e,WAAaqY,EAAC,IAAM0B,EA AK,IAC1CgF,EAAl9e,cAAgBqY,E A AiB,IAAMyB,EAC3CtN,GAAO,KAAQIK,EAAGztB,SAASiqC,GAAQ,IACnCA,EAAltiB,OAAS2iB,EA CT7G,I ACF9L,GAAO,QAAWuS,EAAC,OACChCG,GA AkB,KAA1B,OARI5G,KA EA9L,GADE4S,EACK,gBAEA,IAAOF, EA Aev5B,MAAM,GAAG,GAAO,KAGjD6mB,EAAMIK,EAAGxJ,KAAKsY,YAAY5E,K5C4mPtB,SAASx8B,E AAQD,G6CpPvB,YACAC,GAAOD,QAAU,SA AwBuyB,EAAl6U,EAAUC,GACrD,GAAI5K,GAAM,IACNyL,E AAO3V,EAAG+S,MACV6C,EA AW5V,EAAG6V,UACdpc,EAAUuG,EAAG9rB,OAAO2gC,GACpBiB,EAAC9V, EAAGvC,WAAauC,EAAGxJ,KAAK8X,YAAYuG,GACIDkB,EA AiB/V,EAAGtC,cAAgB,IAAMmX,EAC1CmB, GAAiBhW,EAAG1J,KAAKvF,UACzBgL,EAAQ,QAAU6Z,GAAY,IAC9BK,EAAS,QAAUN,EACnBoH,EA AQ,S AA WpH,EACnB6G,EAAMxc,EAAGxJ,KAAKC,KAAKuJ,GACnB4c,EA AiB,EACrBJ,GAAIzJ,OACJ,IAAI0J,GA Aa,QAAUD,EAAlzJ,MAC3BiK,EA AiBvjB,EA AQra,MAAM,SAASi5B,GAC1C,MAAOry,GAA GxJ,KAAKoZ,e AAeyI,EAAMrY,EAAG1I,MAAMie,MAE/C,IAAIyH,EAAGB,CACIB,GAAIH,GAAiBL,EAAltiB,MACzBgQ,IA AO,QAAW6S,EAAS,kBAAqB9G,EAAU,aAC1D,IAAIgH,GAAgBjd,EAAGuW,aACvBvW,GAAGuW,cAAgBiG, EAAljG,eAAgB,CACvC,IAAIe,GAAO7d,CACX,IAAI6d,EAGF,IAFA,GAAIe,GAAMb,GA AK,EACbC,EA AKH,

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vBIM,GA AO,oDAELIK,EAAG1J,KAAK+f,UACVnM,GA AO,6BAAgC4L,EAAe,mCAAsC9V,EAAGvC,WAAc,  
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U6Z,GAAY,IAC9BK,EAAS,QAAUN,EACnBwH,EAAUnd,EAAG1J,KAAKyF,OAAStC,GA AWA,EAAQsC,KA  
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CjG,IAAIC,GA AaA,KACjBA,GA AWzyB,KAAKymB,GACHBA,EAAM,GACFIK,EAAGmW,gBAAiB,GACtBjM  
,GA AO,sDAAyEIK,EAAGrC,UAAa,kBAAqBqC,EAAGxJ,KAAKmJ,eAAeoW,GAAMb,iBAC3J/V,EAAG1J,KA  
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AE3C,uBAA0BA,EAAS,oBAGrC,cAAiBA,EAAS,+EAEnCpM,GA AO,KACH8L,IACF9L,GA AO,YAEFA,I9C8u  
PH,SAASx8B,EAAQD,G+CnyPvB,YACAC,GA AOD,QAAU,SA A2BuyB,EAAI6U,EAAUC,GACxD,GA AI5K,G  
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ChBA,EAAM,GACFIK,EAAGmW,gBAAiB,GACtBjM,GA AO,yDAA4ElK,EAAGrC,UAAa,kBAAqBqC,EAAGx  
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+f,UACVnM,GA AO,6BAAgC4L,EAAe,mCAAsC9V,EAAGvC,WAAc,YAAe1B,EAAS,KAEvImO,GA AO,OAEP  
A,GA AO,MAET,IAAIoM,GA AQpM,CAMBZ,OAI BAA,GAAMgM,EA AWryB,MAGbqmB,IAFCIK,EAAGuW,e  
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A,GAAEt+B,QAEPsE,EAAM5C,OAAO1B,MAIxB,QAAS0hD,GAAav/C,GAAO,GAEB+C,GAaE/C,EAf+C,O  
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,EACE18C,EADF08C,YAEM9D,EAA8B13C,EAA9B03C,YAAakL,EAAiB5iD,EAAjB4iD,aACf7C,EAAaII,KAA  
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,EAAI4mD,EAAa9gD,EAAQghD,KAGpC/hD,QACEA,GACC,SAAAG,GACC,GAAM4hD,GAAW7jC,EAAS/d,E  
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D,EAAA,GhG+mbKuD,EAAU9C,EAAuB6C,GgG9mbtCE,EAAAxD,EAAA,GAEA2D,GhGgnbmBID,EAAuB+C,  
GgGhnb1CxD,EAAA,GA4FAyiD,GAAaz5C,cACXgyC,WAAW,GhG2obZx7C,EAAQoB,QgGrmbM6hD,GhGynb





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_this.validate(formData),\n\t      errors = _this$validate.errors,\n\t      errorSchema =
_this$validate.errorSchema;\n\t\n\t      state = _extends({}, state, { errors: errors, errorSchema: errorSchema });\n\t
)\n\t      (0, _utils.setState)(_this, state, function () {\n\t      if (_this.props.onChange) {\n\t
_this.props.onChange(_this.state);\n\t      }\n\t      });\n\t\n\t      _this.onBlur = function () {\n\t      if
(_this.props.onBlur) {\n\t      var _this$props;\n\t\n\t      (_this$props = _this.props).onBlur.apply(_this$props,
arguments);\n\t      }\n\t      });\n\t\n\t      _this.onFocus = function () {\n\t      if (_this.props.onFocus) {\n\t      var
_this$props2;\n\t\n\t      (_this$props2 = _this.props).onFocus.apply(_this$props2,
arguments);\n\t      }\n\t      });\n\t\n\t      _this.onSubmit = function (event) {\n\t      event.preventDefault();\n\t\n\t      if
(!_this.props.noValidate) {\n\t      var _ret = function () {\n\t      var _this$validate2 =
_this.validate(_this.state.formData),\n\t      errors = _this$validate2.errors,\n\t      errorSchema =
_this$validate2.errorSchema;\n\t\n\t      if (Object.keys(errors).length > 0) {\n\t      (0, _utils.setState)(_this, {
errors: errors, errorSchema: errorSchema }, function () {\n\t      if (_this.props.onError) {\n\t
_this.props.onError(errors);\n\t      } else {\n\t      console.error("Form validation failed", errors);\n\t
}\n\t      });\n\t      return {\n\t      v: void 0\n\t      };\n\t      }\n\t      }();\n\t\n\t      if ((typeof
_ret === "undefined" ? "undefined" : _typeof(_ret)) === "object") return
_ret.v;\n\t      }\n\t\n\t      if (_this.props.onSubmit) {\n\t      _this.props.onSubmit(_extends({}, _this.state, { status:
"submitted" }));\n\t      }\n\t      _this.setState({ errors: [], errorSchema: {} });\n\t      }\n\t\n\t      _this.state =
_this.getStateFromProps(props);\n\t      return _this;\n\t      }\n\t\n\t      _createClass(Form, [{\n\t      key:
"componentWillReceiveProps",\n\t      value: function componentWillReceiveProps(nextProps) {\n\t
this.setState(this.getStateFromProps(nextProps));\n\t      }\n\t      }, {\n\t      key: "getStateFromProps",\n\t      value:
function getStateFromProps(props) {\n\t      var state = this.state || {};\n\t      var schema = "schema" in props ?
props.schema : this.props.schema;\n\t      var uiSchema = "uiSchema" in props ? props.uiSchema :
this.props.uiSchema;\n\t      var edit = typeof props.formData !== "undefined";\n\t      var liveValidate =
props.liveValidate || this.props.liveValidate;\n\t      var mustValidate = edit && !props.noValidate
&& liveValidate;\n\t      var definitions = schema.definitions;\n\t\n\t      var formData = (0,
_utils.getDefaultFormState)(schema, props.formData, definitions);\n\t\n\t      var _ref = mustValidate ?
this.validate(formData, schema) : {\n\t      errors: state.errors || [],\n\t      errorSchema: state.errorSchema || {}
}\n\t      },\n\t      errors = _ref.errors,\n\t      errorSchema = _ref.errorSchema;\n\t\n\t      var idSchema = (0,
_utils.toIdSchema)(schema, uiSchema["ui:rootFieldId"], definitions, formData);\n\t      return {\n\t      schema:
schema,\n\t      uiSchema: uiSchema,\n\t      idSchema: idSchema,\n\t      formData: formData,\n\t      edit:
edit,\n\t      errors: errors,\n\t      errorSchema: errorSchema\n\t      };\n\t      }\n\t      }, {\n\t      key:
"shouldComponentUpdate",\n\t      value: function shouldComponentUpdate(nextProps, nextState) {\n\t      return
(0, _utils.shouldRender)(this, nextProps, nextState);\n\t      }\n\t      }, {\n\t      key:
"validate",\n\t      value: function validate(formData, schema) {\n\t      var _props = this.props,\n\t      validate =
_props.validate,\n\t      transformErrors = _props.transformErrors;\n\t\n\t      return (0,
_utils.validate2.default)(formData, schema || this.props.schema, validate, transformErrors);\n\t      }\n\t      }, {\n\t      key:
"renderErrors",\n\t      value: function renderErrors() {\n\t      var _state = this.state,\n\t      errors =
_state.errors,\n\t      errorSchema = _state.errorSchema,\n\t      schema = _state.schema,\n\t      uiSchema =
_state.uiSchema;\n\t      var _props2 = this.props,\n\t      ErrorList = _props2.ErrorList,\n\t      showErrorList =
_props2.showErrorList,\n\t      formContext = _props2.formContext;\n\t\n\t      if (errors.length &&
showErrorList !== false) {\n\t      return _react2.default.createElement(ErrorList, {\n\t      errors: errors,\n\t
errorSchema: errorSchema,\n\t      schema: schema,\n\t      uiSchema: uiSchema,\n\t      formContext: formContext\n\t
});\n\t      }\n\t      return null;\n\t      }\n\t      }, {\n\t      key: "getRegistry",\n\t      value: function getRegistry() {\n\t      // For BC, accept passed SchemaField and
TitleField props and pass them to\n\t      // the "fields" registry one.\n\t      var _getDefaultRegistry = (0,
_utils.getDefaultRegistry)(),\n\t      fields = _getDefaultRegistry.fields,\n\t      widgets =
_getDefaultRegistry.widgets;\n\t\n\t      return {\n\t      fields: _extends({}, fields, this.props.fields),\n\t
widgets: _extends({}, widgets, this.props.widgets),\n\t      ArrayFieldTemplate: this.props.ArrayFieldTemplate,\n\t

```

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ObjectFieldTemplate: this.props.ObjectFieldTemplate,\n\t      FieldTemplate: this.props.FieldTemplate,\n\t      definitions: this.props.schema.definitions || {},\n\t      formContext: this.props.formContext || {};\n\t    },\n\t    {\n\t      key: \"render\",\n\t      value:\n\t        function render() {\n\t          var _props3 = this.props,\n\t              children = _props3.children,\n\t              safeRenderCompletion = _props3.safeRenderCompletion,\n\t              id = _props3.id,\n\t              className = _props3.className,\n\t              name = _props3.name,\n\t              method = _props3.method,\n\t              target = _props3.target,\n\t              action = _props3.action,\n\t              autocomplete = _props3.autocomplete,\n\t              enctype = _props3.enctype,\n\t              acceptcharset = _props3.acceptcharset,\n\t              noHtml5Validate = _props3.noHtml5Validate;\n\t          var _state2 = this.state,\n\t              schema = _state2.schema,\n\t              uiSchema = _state2.uiSchema,\n\t              formData = _state2.formData,\n\t              errorSchema = _state2.errorSchema,\n\t              idSchema = _state2.idSchema;\n\t          var registry = this.getRegistry();\n\t          var _SchemaField = registry.fields.SchemaField;\n\t          return _react2.default.createElement(\n\t            \"form\",\n\t            {\n\t              className: className ? className : \"rjsf\",\n\t              id: id,\n\t              name: name,\n\t              method: method,\n\t              target: target,\n\t              action: action,\n\t              autoComplete: autocomplete,\n\t              enctype: enctype,\n\t              acceptCharset: acceptcharset,\n\t              noValidate: noHtml5Validate,\n\t              onSubmit: this.onSubmit },\n\t            this.renderErrors(),\n\t            _react2.default.createElement(_SchemaField, {\n\t              schema: schema,\n\t              uiSchema: uiSchema,\n\t              errorSchema: errorSchema,\n\t              idSchema: idSchema,\n\t              formData: formData,\n\t              onChange: this.onChange,\n\t              onBlur: this.onBlur,\n\t              onFocus: this.onFocus,\n\t              registry: registry,\n\t              safeRenderCompletion: safeRenderCompletion\n\t            }),\n\t            children ? children : _react2.default.createElement(\n\t              \"p\",\n\t              null,\n\t              _react2.default.createElement(\n\t                \"button\",\n\t                { type: \"submit\", className: \"btn btn-info\" },\n\t                \"Submit\"\n\t              )\n\t            )\n\t          );\n\t        }\n\t      });\n\t    });\n\t  return Form;)(_react.Component);\n\t  Form.defaultProps = {\n\t    uiSchema: {},\n\t    noValidate: false,\n\t    liveValidate: false,\n\t    safeRenderCompletion: false,\n\t    noHtml5Validate: false,\n\t    ErrorList: _ErrorList2.default\n\t  };\n\t  exports.default = Form;\n\t  (false) {\n\t    Form.propTypes = {\n\t      schema: _propTypes2.default.object.isRequired,\n\t      uiSchema: _propTypes2.default.object,\n\t      formData: _propTypes2.default.any,\n\t      widgets: _propTypes2.default.objectOf(_propTypes2.default.oneOfType([\n\t        _propTypes2.default.func\n\t      ])),\n\t      fields: _propTypes2.default.objectOf(_propTypes2.default.func),\n\t      ArrayFieldTemplate: _propTypes2.default.func,\n\t      ObjectFieldTemplate: _propTypes2.default.func,\n\t      FieldTemplate: _propTypes2.default.func,\n\t      ErrorList: _propTypes2.default.func,\n\t      onChange: _propTypes2.default.func,\n\t      onError: _propTypes2.default.func,\n\t      showErrorList: _propTypes2.default.bool,\n\t      onSubmit: _propTypes2.default.func,\n\t      id: _propTypes2.default.string,\n\t      className: _propTypes2.default.string,\n\t      name: _propTypes2.default.string,\n\t      method: _propTypes2.default.string,\n\t      target: _propTypes2.default.string,\n\t      action: _propTypes2.default.string,\n\t      autocomplete: _propTypes2.default.string,\n\t      enctype: _propTypes2.default.string,\n\t      acceptcharset: _propTypes2.default.string,\n\t      noValidate: _propTypes2.default.bool,\n\t      noHtml5Validate: _propTypes2.default.bool,\n\t      liveValidate: _propTypes2.default.bool,\n\t      validate: _propTypes2.default.func,\n\t      transformErrors: _propTypes2.default.func,\n\t      safeRenderCompletion: _propTypes2.default.bool,\n\t      formContext: _propTypes2.default.object\n\t    };\n\t  };\n\t  /**\n\t   * Copyright 2013-present, Facebook, Inc.\n\t   * All rights reserved.\n\t   * This source code is licensed under the BSD-style license found in the LICENSE file in the root directory of this source tree. An

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additional grant * of patent rights can be found in the PATENTS file in the same directory.
}
var REACT_ELEMENT_TYPE = typeof Symbol === 'function' && Symbol.for &&
Symbol.for('react.element') || 0xeac7;
var isValidElement = function isValidElement(object)
{
  return (typeof object === 'undefined' ? 'undefined' : _typeof(object)) === 'object' && object !== null &&
  object.$$typeof === REACT_ELEMENT_TYPE;
};
// By explicitly using `prop-types` you are opting
into new development behavior.
// http://fb.me/prop-types-in-prod
var throwOnDirectAccess = true;
module.exports = require('./factoryWithTypeCheckers')(isValidElement, throwOnDirectAccess);
else {
  // By explicitly using `prop-types` you are opting into new production behavior.
  // http://fb.me/prop-types-in-prod
  module.exports = __webpack_require__(4);
}
4
function(module, exports, __webpack_require__) {
  Copyright 2013-present, Facebook, Inc.
  All rights reserved.
  *
  This source code is licensed under the BSD-style license found in the LICENSE file in the root directory of this
  source tree. An additional grant * of patent rights can be found in the
  PATENTS file in the same directory.
  *
  use strict;
  var emptyFunction =
  __webpack_require__(5);
  var invariant = __webpack_require__(6);
  module.exports = function () {
    // Important!
    // Keep this list in sync with production version in `./factoryWithTypeCheckers.js`.
    function shim() {
      invariant(false, 'Calling PropTypes validators directly is not supported by the `prop-types` package. ' +
      'Use PropTypes.checkPropTypes() to call them. ' + 'Read more at http://fb.me/use-check-prop-types');
    };
    shim.isRequired = shim;
    function getShim() {
      return shim;
    };
    var ReactPropTypes = {
      array: shim,
      bool: shim,
      func: shim,
      number: shim,
      object: shim,
      string: shim,
      symbol: shim,
      any: shim,
      arrayOf: getShim,
      element: shim,
      instanceOf: getShim,
      node: shim,
      objectOf: getShim,
      oneOf: getShim,
      oneOfType: getShim,
      shape: getShim
    };
    ReactPropTypes.checkPropTypes = emptyFunction;
    ReactPropTypes.PropTypes =
    ReactPropTypes;
    return ReactPropTypes;
  };
}
5
function(module, exports) {
  "use strict";
  Copyright (c) 2013-present, Facebook, Inc.
  All rights reserved.
  *
  This source code is licensed under the BSD-style license found in the LICENSE file in the root directory of this
  source tree. An additional grant * of patent rights can be found in the PATENTS file in the same directory.
  *
  *
  function makeEmptyFunction(arg) {
    return function () {
      return arg;
    };
  };
  This function accepts and discards inputs; it has no side effects. This is primarily useful
  idiomatically for overridable function endpoints which always need to be callable, since JS lacks a null-call
  idiom ala Cocoa.
  var emptyFunction = function emptyFunction() {};
  emptyFunction.thatReturns =
  makeEmptyFunction;
  emptyFunction.thatReturnsFalse =
  makeEmptyFunction(false);
  emptyFunction.thatReturnsTrue =
  makeEmptyFunction(true);
  emptyFunction.thatReturnsNull =
  makeEmptyFunction(null);
  emptyFunction.thatReturnsThis = function () {
    return
    this;
  };
  emptyFunction.thatReturnsArgument = function (arg) {
    return arg;
  };
}
6
function(module, exports, __webpack_require__) {
  Copyright (c) 2013-present, Facebook, Inc.
  All rights reserved.
  *
  This source code is licensed under
  the BSD-style license found in the LICENSE file in the root directory of this source tree. An additional
  grant * of patent rights can be found in the PATENTS file in the same directory.
  *
  *
  use strict;
  *
  Use invariant() to assert state which your program assumes to be true.
  *
  Provide
  sprintf-style format (only
  %s is supported) and arguments * to provide information about what broke and what you were
  *
  expecting.
  *
  The invariant message will be stripped in production, but the invariant * will remain to
  ensure logic does not differ in production.
  *
  validateFormat = function validateFormat(format)
  {};
  if (format === undefined) {
    throw new Error('invariant requires an error message argument');
  };
  function
  invariant(condition, format, a, b, c, d, e, f) {
    validateFormat(format);
    if (!condition) {
      var error;
      if (format === undefined) {
        error = new Error('Minified exception occurred; use the non-minified dev

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"FileWidget",\n\t radio: "RadioWidget",\n\t select: "SelectWidget",\n\t textarea: "TextareaWidget",\n\t
hidden: "HiddenWidget",\n\t date: "DateWidget",\n\t datetime: "DateTimeWidget",\n\t "date-time":
"DateTimeWidget",\n\t "alt-date": "AltDateWidget",\n\t "alt-datetime":
"AltDateTimeWidget",\n\t color: "ColorWidget",\n\t file: "FileWidget"\n\t },\n\t number: {\n\t text:
"TextWidget",\n\t select: "SelectWidget",\n\t updown: "UpDownWidget",\n\t range: "RangeWidget",\n\t
radio: "RadioWidget",\n\t hidden: "HiddenWidget"\n\t },\n\t integer: {\n\t text: "TextWidget",\n\t select:
"SelectWidget",\n\t updown: "UpDownWidget",\n\t range: "RangeWidget",\n\t radio: "RadioWidget",\n\t
hidden: "HiddenWidget"\n\t },\n\t array: {\n\t select: "SelectWidget",\n\t checkboxes:
"CheckboxesWidget",\n\t files: "FileWidget"\n\t }\n\t};\n\t\n\tfunction getDefaultRegistry() {\n\t return {\n\t
fields: __webpack_require__(69).default,\n\t widgets: __webpack_require__(79).default,\n\t definitions: {}},\n\t
formContext: {};\n\t }\n\t}\n\t\n\tfunction getWidget(schema, widget) {\n\t var registeredWidgets =
arguments.length > 2 && arguments[2] !== undefined ? arguments[2]
: {};\n\t var type = schema.type;\n\t\n\t function mergeOptions(Widget) {\n\t // cache return value as property
of widget for proper react reconciliation\n\t if (!Widget.MergedWidget) {\n\t (function () {\n\t var
defaultOptions = Widget.defaultProps && Widget.defaultProps.options || {};\n\t Widget.MergedWidget =
function (_ref) {\n\t var _ref$options = _ref.options,\n\t options = _ref$options === undefined ? {} :
_ref$options,\n\t props = _objectWithoutProperties(_ref, ["options"]);
\n\t return
_react2.default.createElement(Widget, _extends({ options: _extends({}, defaultOptions, options) }, props));\n\t
};\n\t })();\n\t }\n\t\n\t return Widget.MergedWidget;\n\t }\n\t\n\t if (typeof widget === "function") {\n\t
return mergeOptions(widget);\n\t }\n\t\n\t if (typeof widget !== "string") {\n\t throw new Error("Unsupported
widget definition: " + (typeof widget === "undefined" ?
"undefined" : _typeof(widget)));\n\t }\n\t\n\t if (registeredWidgets.hasOwnProperty(widget)) {\n\t var
registeredWidget = registeredWidgets[widget];\n\t return getWidget(schema, registeredWidget,
registeredWidgets);\n\t }\n\t\n\t if (!widgetMap.hasOwnProperty(type)) {\n\t throw new Error("No widget for
type \\\\" + type + "\\");\n\t }\n\t\n\t if (widgetMap[type].hasOwnProperty(widget)) {\n\t var
_registeredWidget = registeredWidgets[widgetMap[type][widget]];\n\t return getWidget(schema,
_registeredWidget, registeredWidgets);\n\t }\n\t\n\t throw new Error("No widget \\\\" + widget + "\\\" for type
\\" + type + "\\");\n\t }\n\t\n\t\n\tfunction computeDefaults(schema, parentDefaults) {\n\t var definitions =
arguments.length > 2 && arguments[2] !== undefined ? arguments[2] : {};\n\t\n\t // Compute the defaults
recursively: give highest priority to deepest nodes.\n\t var defaults = parentDefaults;\n\t if (isObject(defaults) &&
isObject(schema.default))\n\t {\n\t // For object defaults, only override parent defaults that are defined in\n\t // schema.default.\n\t defaults =
mergeObjects(defaults, schema.default);\n\t } else if ("default" in schema) {\n\t // Use schema defaults for this
node.\n\t defaults = schema.default;\n\t } else if ("$ref" in schema) {\n\t // Use referenced schema defaults for
this node.\n\t var refSchema = findSchemaDefinition(schema.$ref, definitions);\n\t return
computeDefaults(refSchema, defaults, definitions);\n\t } else if (isFixedItems(schema)) {\n\t defaults =
schema.items.map(function (itemSchema) {\n\t return computeDefaults(itemSchema, undefined, definitions);\n\t
});\n\t }\n\t\n\t // Not defaults defined for this node, fallback to generic typed ones.\n\t if (typeof defaults ===
"undefined") {\n\t defaults = schema.default;\n\t }\n\t\n\t switch (schema.type) {\n\t // We need to recur for
object schema inner default values.\n\t case "object":\n\t return Object.keys(schema.properties || {}).reduce(function (acc, key) {\n\t // Compute the defaults for this
node, with the parent defaults we might\n\t // have from a previous run: defaults[key].\n\t acc[key] =
computeDefaults(schema.properties[key], (defaults || {})[key], definitions);\n\t return acc;\n\t }, {});\n\t\n\t
case "array":\n\t if (schema.minItems) {\n\t if (!isMultiSelect(schema, definitions)) {\n\t var
defaultsLength = defaults ? defaults.length : 0;\n\t if (schema.minItems > defaultsLength) {\n\t var
defaultEntries = defaults || [];\n\t // populate the array with the defaults\n\t var fillerEntries = new
Array(schema.minItems - defaultsLength).fill(computeDefaults(schema.items, schema.items.defaults,
definitions));\n\t // then fill up the rest with either the item default or empty, up to minItems\n\t\n\t

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(schema.hasOwnProperty("const")) {\n\t return schema.const;\n\t } else {\n\t throw new Error("schema
cannot be inferred as a constant");\n\t }\n\t}\n\t\n\tfunction isSelect(_schema) {\n\t var definitions =
arguments.length > 1 && arguments[1] !== undefined ? arguments[1] : {};\n\t\n\t var schema =
retrieveSchema(_schema, definitions);\n\t var altSchemas = schema.oneOf || schema.anyOf;\n\t if
(Array.isArray(schema.enum)) {\n\t return true;\n\t } else if (Array.isArray(altSchemas)) {\n\t return
altSchemas.every(function (altSchemas) {\n\t return isConstant(altSchemas);\n\t });\n\t }\n\t return
false;\n\t}\n\t\n\tfunction isMultiSelect(schema) {\n\t var definitions = arguments.length > 1 && arguments[1] !==
undefined ? arguments[1] : {};\n\t\n\t if (!schema.uniqueItems
|| !schema.items) {\n\t return false;\n\t }\n\t return isSelect(schema.items, definitions);\n\t}\n\t\n\tfunction
isFilesArray(schema, uiSchema) {\n\t var definitions = arguments.length > 2 && arguments[2] !== undefined ?
arguments[2] : {};\n\t\n\t if (uiSchema["ui:widget"] === "files") {\n\t return true;\n\t } else if (schema.items)
{\n\t var itemsSchema = retrieveSchema(schema.items, definitions);\n\t return itemsSchema.type === "string"
&& itemsSchema.format === "data-url";\n\t }\n\t return false;\n\t}\n\t\n\tfunction isFixedItems(schema) {\n\t
return Array.isArray(schema.items) && schema.items.length > 0 && schema.items.every(function (item) {\n\t
return isObject(item);\n\t });\n\t}\n\t\n\tfunction allowAdditionalItems(schema) {\n\t if (schema.additionalItems
=== true) {\n\t console.warn("additionalItems=true is currently not supported");\n\t }\n\t return
isObject(schema.additionalItems);\n\t}\n\t\n\tfunction optionsList(schema) {\n\t if
(schema.enum) {\n\t return schema.enum.map(function (value, i) {\n\t var label = schema.enumNames &&
schema.enumNames[i] || String(value);\n\t return { label: label, value: value };\n\t });\n\t } else {\n\t var
altSchemas = schema.oneOf || schema.anyOf;\n\t return altSchemas.map(function (schema, i) {\n\t var value =
toConstant(schema);\n\t var label = schema.title || String(value);\n\t return { label: label, value: value };\n\t
});\n\t }\n\t}\n\t\n\tfunction findSchemaDefinition($ref) {\n\t var definitions = arguments.length > 1 &&
arguments[1] !== undefined ? arguments[1] : {};\n\t\n\t // Extract and use the referenced definition if we have it.\n\t
var match = /#\//definitions\/(.*)\$.exec($ref);\n\t if (match && match[1]) {\n\t var parts =
match[1].split("/");\n\t var current = definitions;\n\t var _iteratorNormalCompletion = true;\n\t var
_didIteratorError = false;\n\t var _iteratorError = undefined;\n\t\n\t try {\n\t
for (var _iterator = parts[Symbol.iterator](), _step; !(_iteratorNormalCompletion = (_step =
_iterator.next()).done); _iteratorNormalCompletion = true) {\n\t var part = _step.value;\n\t\n\t part =
part.replace(/~/g, "\\").replace(/~/g, "\\~");\n\t if (current.hasOwnProperty(part)) {\n\t current =
current[part];\n\t } else {\n\t // No matching definition found, that's an error (bogus schema?)\n\t
throw new Error("Could not find a definition for \"" + $ref + "\"");\n\t }\n\t }\n\t } catch (err) {\n\t
_didIteratorError = true;\n\t _iteratorError = err;\n\t }\n\t finally {\n\t try {\n\t if
(!_iteratorNormalCompletion && _iterator.return) {\n\t _iterator.return();\n\t }\n\t } finally {\n\t if
(_didIteratorError) {\n\t throw _iteratorError;\n\t }\n\t }\n\t }\n\t\n\t return current;\n\t }\n\t}\n\t\n\t //
No matching definition found, that's
an error (bogus schema?)\n\t throw new Error("Could not find a definition for \"" + $ref + "\"");\n\t}\n\t\n\tfunction
retrieveSchema(schema) {\n\t var definitions = arguments.length > 1 && arguments[1] !== undefined ?
arguments[1] : {};\n\t var formData = arguments.length > 2 && arguments[2] !== undefined ? arguments[2] :
{};\n\t\n\t if (schema.hasOwnProperty("$ref")) {\n\t // Retrieve the referenced schema definition.\n\t var
$refSchema = findSchemaDefinition(schema.$ref, definitions);\n\t // Drop the $ref property of the source
schema.\n\t\n\t var $ref = schema.$ref,\n\t localSchema = _objectWithoutProperties(schema, ["$ref"]);
\n\t // Update referenced schema definition with local schema properties.\n\t\n\t\n\t return
retrieveSchema(_extends({}, $refSchema, localSchema), definitions, formData);\n\t } else if
(schema.hasOwnProperty("dependencies")) {\n\t var resolvedSchema = resolveDependencies(schema,
definitions, formData);\n\t return retrieveSchema(resolvedSchema,
definitions, formData);\n\t } else {\n\t // No $ref or dependencies attribute found, returning the original
schema.\n\t return schema;\n\t }\n\t}\n\t\n\tfunction resolveDependencies(schema, definitions, formData) {\n\t //
Drop the dependencies from the source schema.\n\t var _schema$dependencies = schema.dependencies,\n\t

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dependencies = _schema$dependencies === undefined ? {} : _schema$dependencies,\n\t resolvedSchema =
_objectWithoutProperties(schema, ["dependencies"]);
\n\t // Process dependencies updating the local schema
properties as appropriate.\n\t\n\t\n\t for (var dependencyKey in dependencies) {\n\t // Skip this dependency if its
trigger property is not present.\n\t if (formData[dependencyKey] === undefined) {\n\t continue;\n\t }\n\t
var dependencyValue = dependencies[dependencyKey];\n\t if (Array.isArray(dependencyValue)) {\n\t
resolvedSchema = withDependentProperties(resolvedSchema, dependencyValue);\n\t
} else if (isObject(dependencyValue)) {\n\t resolvedSchema = withDependentSchema(resolvedSchema,
definitions, formData, dependencyKey, dependencyValue);\n\t }\n\t }\n\t return
resolvedSchema;\n\t}\n\t\n\tfunction withDependentProperties(schema, additionallyRequired) {\n\t if
(!additionallyRequired) {\n\t return schema;\n\t }\n\t var required = Array.isArray(schema.required) ?
Array.from(new Set([].concat(_toConsumableArray(schema.required),
_toConsumableArray(additionallyRequired)))) : additionallyRequired;\n\t return _extends({}, schema, { required:
required });\n\t}\n\t\n\tfunction withDependentSchema(schema, definitions, formData, dependencyKey,
dependencyValue) {\n\t var _retrieveSchema = retrieveSchema(dependencyValue, definitions, formData),\n\t
oneOf = _retrieveSchema.oneOf,\n\t dependentSchema = _objectWithoutProperties(_retrieveSchema,
["oneOf"]);
\n\t\n\t\n\t schema = mergeSchemas(schema, dependentSchema);\n\t return oneOf === undefined ?
schema : withExactlyOneSubschema(schema, definitions, formData, dependencyKey, oneOf);\n\t}\n\t\n\tfunction
withExactlyOneSubschema(schema, definitions, formData, dependencyKey, oneOf) {\n\t if
(!Array.isArray(oneOf)) {\n\t throw new Error("invalid oneOf: it is some \" + (typeof oneOf === \"undefined\" ?
\"undefined\" : _typeof(oneOf)) + \" instead of an array\");\n\t }\n\t var validSubschemas = oneOf.filter(function
(subschema) {\n\t if (!subschema.properties) {\n\t return false;\n\t }\n\t var conditionPropertySchema =
subschema.properties[dependencyKey];\n\t\n\t if (conditionPropertySchema) {\n\t var conditionSchema = {\n\t
type: \"object\", \n\t properties: _defineProperty({}, dependencyKey, conditionPropertySchema)\n\t
};\n\t\n\t var _validateFormData = (0, _validate2.default)(formData, conditionSchema),\n\t errors =
_validateFormData.errors;\n\t\n\t return errors.length === 0;\n\t }\n\t });\n\t if (validSubschemas.length
!== 1) {\n\t console.warn("ignoring oneOf in dependencies because there isn't exactly one subschema that is
valid");\n\t return schema;\n\t }\n\t var subschema = validSubschemas[0];\n\t\n\t var _subschema$properties =
subschema.properties, \n\t conditionPropertySchema = _subschema$properties[dependencyKey], \n\t
dependentSubschema = _objectWithoutProperties(_subschema$properties, [dependencyKey]);\n\t\n\t\n\t var
dependentSchema = _extends({}, subschema, { properties: dependentSubschema });\n\t return
mergeSchemas(schema, retrieveSchema(dependentSchema, definitions, formData));\n\t}\n\t\n\t\n\tfunction
mergeSchemas(schema1, schema2) {\n\t return mergeObjects(schema1, schema2, true);\n\t}\n\t\n\t\n\tfunction
isArguments(object) {\n\t return Object.prototype.toString.call(object) === \"[object
Arguments]\";\n\t}\n\t\n\t\n\tfunction deepEquals(a, b) {\n\t var ca = arguments.length > 2 && arguments[2] !==
undefined ? arguments[2] : [];\n\t var cb = arguments.length > 3
&& arguments[3] !== undefined ? arguments[3] : [];\n\t\n\t // Partially extracted from node-deeper and adapted to
exclude comparison\n\t // checks for functions.\n\t // https://github.com/othiym23/node-deeper\n\t if (a === b)
{\n\t return true;\n\t } else if (typeof a === \"function\" || typeof b === \"function\") {\n\t // Assume all functions
are equivalent\n\t // see https://github.com/mozilla-services/react-jsonschema-form/issues/255\n\t return true;\n\t
} else if ((typeof a === \"undefined\" ? \"undefined\" : _typeof(a)) !== \"object\" || (typeof b === \"undefined\" ?
\"undefined\" : _typeof(b)) !== \"object\") {\n\t return false;\n\t } else if (a === null || b === null) {\n\t return
false;\n\t } else if (a instanceof Date && b instanceof Date) {\n\t return a.getTime() === b.getTime();\n\t } else if
(a instanceof RegExp && b instanceof RegExp) {\n\t return a.source === b.source && a.global === b.global &&
a.multiline === b.multiline && a.lastIndex ===
b.lastIndex && a.ignoreCase === b.ignoreCase;\n\t } else if (isArguments(a) || isArguments(b)) {\n\t if
(!(isArguments(a) && isArguments(b))) {\n\t return false;\n\t }\n\t var slice = Array.prototype.slice;\n\t
return deepEquals(slice.call(a), slice.call(b), ca, cb);\n\t } else {\n\t if (a.constructor !== b.constructor) {\n\t
return false;\n\t }\n\t\n\t var ka = Object.keys(a);\n\t var kb = Object.keys(b);\n\t // don't bother with stack

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acrobatics if there's nothing there\n\t if (ka.length === 0 && kb.length === 0) {\n\t return true;\n\t }\n\t if
(ka.length !== kb.length) {\n\t return false;\n\t }\n\t\t\n\t var cal = ca.length;\n\t while (cal--)\n\t if
(ca[cal] === a) {\n\t return cb[cal] === b;\n\t }\n\t }\n\t ca.push(a);\n\t cb.push(b);\n\t\t\n\t ka.sort();\n\t kb.sort();\n\t for (var j = ka.length - 1; j >= 0; j--)\n\t if (ka[j] !== kb[j]) {\n\t return
false;\n\t
}\n\t }\n\t\t\n\t var key = void 0;\n\t for (var k = ka.length - 1; k >= 0; k--)\n\t key = ka[k];\n\t if
(!deepEquals(a[key], b[key], ca, cb)) {\n\t return false;\n\t }\n\t }\n\t\t\n\t ca.pop();\n\t cb.pop();\n\t\t\n\t return true;\n\t }\n\t}\n\t\n\tfunction shouldRender(comp, nextProps, nextState) {\n\t var props = comp.props,\n\t state = comp.state;\n\t return !deepEquals(props, nextProps) || !deepEquals(state, nextState);\n\t}\n\t\n\tfunction
toIdSchema(schema, id, definitions) {\n\t var formData = arguments.length > 3 && arguments[3] !== undefined ?
arguments[3] : {};\n\t\t\n\t var idSchema = {\n\t $id: id || \"root\"\n\t };\n\t if (\"$ref\" in schema) {\n\t var
_schema = retrieveSchema(schema, definitions, formData);\n\t return toIdSchema(_schema, id, definitions,
formData);\n\t }\n\t if (\"items\" in schema && !schema.items.$ref) {\n\t return toIdSchema(schema.items, id,
definitions, formData);\n\t }\n\t if (schema.type
!== \"object\") {\n\t return idSchema;\n\t }\n\t for (var name in schema.properties || {})\n\t var field =
schema.properties[name];\n\t var fieldId = idSchema.$id + \"_\" + name;\n\t idSchema[name] =
toIdSchema(field, fieldId, definitions, formData[name]);\n\t }\n\t return idSchema;\n\t}\n\t\n\tfunction
parseDateString(dateString) {\n\t var includeTime = arguments.length > 1 && arguments[1] !== undefined ?
arguments[1] : true;\n\t\t\n\t if (!dateString) {\n\t return {\n\t year: -1,\n\t month: -1,\n\t day: -1,\n\t
hour: includeTime ? -1 : 0,\n\t minute: includeTime ? -1 : 0,\n\t second: includeTime ? -1 : 0\n\t };\n\t }\n\t
var date = new Date(dateString);\n\t if (Number.isNaN(date.getTime())) {\n\t throw new Error(\"Unable to parse
date \" + dateString);\n\t }\n\t return {\n\t year: date.getUTCFullYear(),\n\t month: date.getUTCMonth() + 1, //
oh you, javascript.\n\t day: date.getUTCDate(),\n\t hour: includeTime
? date.getUTCHours() : 0,\n\t minute: includeTime ? date.getUTCMinutes() : 0,\n\t second: includeTime ?
date.getUTCSeconds() : 0\n\t };\n\t}\n\t\n\tfunction toDateString(_ref2) {\n\t var year = _ref2.year,\n\t month =
_ref2.month,\n\t day = _ref2.day,\n\t _ref2$hour = _ref2.hour,\n\t hour = _ref2$hour === undefined ? 0 :
_ref2$hour,\n\t _ref2$minute = _ref2.minute,\n\t minute = _ref2$minute === undefined ? 0 :
_ref2$minute,\n\t _ref2$second = _ref2.second,\n\t second = _ref2$second === undefined ? 0 :
_ref2$second;\n\t var time = arguments.length > 1 && arguments[1] !== undefined ? arguments[1] : true;\n\t\t\n\t
var utcTime = Date.UTC(year, month - 1, day, hour, minute, second);\n\t var datetime = new
Date(utcTime).toJSON();\n\t return time ? datetime : datetime.slice(0, 10);\n\t}\n\t\n\tfunction pad(num, size) {\n\t
var s = String(num);\n\t while (s.length < size) {\n\t s = \"0\" + s;\n\t }\n\t return s;\n\t}\n\t\n\tfunction
setState(instance, state, callback) {\n\t var safeRenderCompletion = instance.props.safeRenderCompletion;\n\t\t\n\t
if (safeRenderCompletion) {\n\t instance.setState(state, callback);\n\t } else {\n\t instance.setState(state);\n\t
setImmediate(callback);\n\t }\n\t}\n\t\n\tfunction dataURItoBlob(dataURI) {\n\t // Split metadata from data\n\t var
splitted = dataURI.split(\",;\");\n\t // Split params\n\t var params = splitted[0].split(\\\";\");\n\t // Get mime-type from
params\n\t var type = params[0].replace(\"data:\", \"\");\n\t // Filter the name property from params\n\t var
properties = params.filter(function (param) {\n\t return param.split(\"=\")[0] !== \"name\";\n\t });\n\t // Look for
the name and use unknown if no name property.\n\t var name = void 0;\n\t if (properties.length !== 1) {\n\t name
= \"unknown\";\n\t } else {\n\t // Because we filtered out the other property,\n\t // we only have the name case
here.\n\t name = properties[0].split(\"=\")[1];\n\t
}\n\t\t\n\t // Built the Uint8Array Blob parameter from the base64 string.\n\t var binary = atob(splitted[1]);\n\t var
array = [];\n\t for (var i = 0; i < binary.length; i++) {\n\t array.push(binary.charCodeAt(i));\n\t }\n\t // Create the
blob object\n\t var blob = new window.Blob([new Uint8Array(array)], { type: type });\n\t\t\n\t return { blob: blob,
name: name };\n\t}\n\t\n\tfunction rangeSpec(schema) {\n\t var spec = {};\n\t if (schema.multipleOf) {\n\t
spec.step = schema.multipleOf;\n\t }\n\t if (schema.minimum || schema.minimum === 0) {\n\t spec.min =
schema.minimum;\n\t }\n\t if (schema.maximum || schema.maximum === 0) {\n\t spec.max =
schema.maximum;\n\t }\n\t return spec;\n\t}\n\t\n\t/* WEBPACK VAR INJECTION */.call(exports,

```

```

__webpack_require__(9).setImmediate))\n\n/***/ },\n/* 9 */\n/***/ function(module, exports,
__webpack_require__) {\n\n\t/* WEBPACK VAR INJECTION */(function(setImmediate, clearImmediate) {"use
strict";\n\n\t\tvar
nextTick = __webpack_require__(10).nextTick;\n\t\tvar apply = Function.prototype.apply;\n\t\tvar slice =
Array.prototype.slice;\n\t\tvar immediateIds = {};\n\t\tvar nextImmediateId = 0;\n\n\t\t// DOM APIs, for
completeness\n\t\t\texports.setTimeout = function () {\n\t\t\t\treturn new Timeout(apply.call(setTimeout, window,
arguments), clearTimeout);\n\t\t\t};\n\t\t\texports.setInterval = function () {\n\t\t\t\treturn new Timeout(apply.call(setInterval,
window, arguments), clearInterval);\n\t\t\t};\n\t\t\texports.clearTimeout = exports.clearInterval = function (timeout) {\n\t\t\t\ttimeout.close();\n\t\t\t};\n\t\t\tfunction Timeout(id, clearFn) {\n\t\t\t\tthis._id = id;\n\t\t\t\tthis._clearFn =
clearFn;\n\t\t\t}\n\t\t\tTimeout.prototype.unref = Timeout.prototype.ref = function () {};\n\t\t\tTimeout.prototype.close =
function () {\n\t\t\t\tthis._clearFn.call(window, this._id);\n\t\t\t};\n\n\t\t\t// Does not start the time, just sets up the members
needed.\n\t\t\texports.enroll = function (item, msecs) {\n\t\t\t\tclearTimeout(item._idleTimeoutId);\n\t\t\t\titem._idleTimeout =
msecs;\n\t\t\t};\n\t\t\texports.unenroll = function (item) {\n\t\t\t\tclearTimeout(item._idleTimeoutId);\n\t\t\t\titem._idleTimeout = -1;\n\t\t\t};\n\t\t\texports._unrefActive = exports.active = function (item) {\n\t\t\t\tclearTimeout(item._idleTimeoutId);\n\t\t\t\tvar msecs = item._idleTimeout;\n\t\t\t\tif (msecs >= 0) {\n\t\t\t\t\titem._idleTimeoutId = setTimeout(function onTimeout() {\n\t\t\t\t\t\tif (item._onTimeout) item._onTimeout();\n\t\t\t\t\t},
msecs);\n\t\t\t\t}\n\t\t\t};\n\n\t\t\t// That's not how node.js implements it but the exposed api is the
same.\n\t\t\texports.setImmediate = typeof setImmediate === "function" ? setImmediate : function (fn) {\n\t\t\t\tvar id =
nextImmediateId++;\n\t\t\t\tvar args = arguments.length < 2 ? false : slice.call(arguments, 1);\n\t\t\t\timmediateIds[id] =
true;\n\t\t\t\tnextTick(function onNextTick() {\n\t\t\t\t\tif (immediateIds[id]) {\n\t\t\t\t\t\t// fn.call() is faster so we
optimize for the common use-case\n\t\t\t\t\t\t// @see http://jsperf.com/call-apply-segu\n\t\t\t\t\t\tif (args) {\n\t\t\t\t\t\t\tfn.apply(null,
args);\n\t\t\t\t\t\t} else {\n\t\t\t\t\t\t\tfn.call(null);\n\t\t\t\t\t\t}\n\t\t\t\t\t\t// Prevent ids from leaking\n\t\t\t\t\t\texports.clearImmediate(id);\n\t\t\t\t\t\t}\n\t\t\t\t\t});\n\t\t\t\t\treturn id;\n\t\t\t\t};\n\t\t\t\texports.clearImmediate = typeof
clearImmediate === "function" ? clearImmediate : function (id) {\n\t\t\t\t\tdelete immediateIds[id];\n\t\t\t\t};\n\n\t\t\t/*
WEBPACK VAR INJECTION */}.call(exports, __webpack_require__(9).setImmediate,
__webpack_require__(9).clearImmediate))\n\n/***/ },\n/* 10 */\n/***/ function(module, exports) {\n\n\t\t'use
strict';\n\n\t\t// shim for using process in browser\n\t\t\tvar process = module.exports = {};\n\n\t\t\t// cached from
whatever global is present so that test runners that stub it\n\t\t\t// don't break things. But we need to wrap it in a try
catch in case it is\n\t\t\t// wrapped in strict mode code which doesn't define any globals. It's inside a\n\t\t\t// function
because try/catches deoptimize in certain engines.\n\n\t\t\tvar cachedSetTimeout;\n\t\t\tvar
cachedClearTimeout;\n\n\t\t\tfunction defaultSetTimeout()\n\t\t\t\t{\n\t\t\t\t\tthrow new Error('setTimeout has not been defined');\n\t\t\t\t}\n\n\t\t\tfunction defaultClearTimeout()\n\t\t\t\t{\n\t\t\t\t\tthrow
new Error('clearTimeout has not been defined');\n\t\t\t\t}\n\n\t\t\t(function () {\n\t\t\t\t\ttry {\n\t\t\t\t\t\tif (typeof setTimeout ===
'function') {\n\t\t\t\t\t\t\tcachedSetTimeout = setTimeout;\n\t\t\t\t\t\t} else {\n\t\t\t\t\t\t\tcachedSetTimeout =
defaultSetTimeout;\n\t\t\t\t\t\t}\n\t\t\t\t\t} catch (e) {\n\t\t\t\t\t\tcachedSetTimeout = defaultSetTimeout;\n\t\t\t\t\t}\n\t\t\t\t\ttry {\n\t\t\t\t\t\tif (typeof clearTimeout === 'function') {\n\t\t\t\t\t\t\tcachedClearTimeout =
clearTimeout;\n\t\t\t\t\t\t} else {\n\t\t\t\t\t\t\tcachedClearTimeout = defaultClearTimeout;\n\t\t\t\t\t\t}\n\t\t\t\t\t} catch (e) {\n\t\t\t\t\t\tcachedClearTimeout =
defaultClearTimeout;\n\t\t\t\t\t}\n\t\t\t\t}\n\t\t\t\t})();\n\n\t\t\tfunction runTimeout(fun) {\n\t\t\t\t\tif (cachedSetTimeout ===
setTimeout)\n\t\t\t\t\t\t{\n\t\t\t\t\t\t\t//normal environments in sane situations\n\t\t\t\t\t\t\treturn setTimeout(fun, 0);\n\t\t\t\t\t\t}\n\t\t\t\t\t\t// if
setTimeout wasn't available but was latter defined\n\t\t\t\t\t\tif ((cachedSetTimeout === defaultSetTimeout || !cachedSetTimeout) &&
setTimeout) {\n\t\t\t\t\t\t\tcachedSetTimeout =
setTimeout;\n\t\t\t\t\t\t\treturn setTimeout(fun, 0);\n\t\t\t\t\t\t}\n\t\t\t\t\t\ttry {\n\t\t\t\t\t\t\t// when when somebody has
screwed with
setTimeout but no I.E. madness\n\t\t\t\t\t\t\treturn cachedSetTimeout(fun, 0);\n\t\t\t\t\t\t} catch (e) {\n\t\t\t\t\t\t\ttry {\n\t\t\t\t\t\t\t\t// When we are in I.E. but the script has been
evald so I.E. doesn't trust the global object when called normally\n\t\t\t\t\t\t\t\treturn cachedSetTimeout.call(null, fun, 0);\n\t\t\t\t\t\t\t} catch (e) {\n\t\t\t\t\t\t\t\t// same as above but when it's a
version of I.E. that must have the global object for 'this', hopefully our context correct otherwise it will throw a global
error\n\t\t\t\t\t\t\t\treturn cachedSetTimeout.call(this, fun, 0);\n\t\t\t\t\t\t\t}\n\t\t\t\t\t\t}\n\t\t\t\t\t}\n\n\t\t\t\tfunction

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completed.\n\t // So if we're currently running a task, we'll need to delay this invocation.\n\t if
(currentlyRunningATask) {\n\t // Delay by doing a setTimeout. setImmediate was tried instead, but in Firefox
7 it generated a\n\t // "\too much recursion" error.\n\t setTimeout(runIfPresent, 0, handle);\n\t }
else {\n\t var task = tasksByHandle[handle];\n\t if (task) {\n\t currentlyRunningATask =
true;\n\t try {\n\t run(task);\n\t } finally {\n\t
clearImmediate(handle);\n\t currentlyRunningATask = false;\n\t }\n\t }\n\t }
}\n\t\n\t function installNextTickImplementation() {\n\t registerImmediate = function
registerImmediate(handle) {\n\t process.nextTick(function () {\n\t runIfPresent(handle);\n\t
});\n\t };}\n\t }\n\t\n\t function canUsePostMessage() {\n\t // The test against `importScripts` prevents
this implementation from being installed inside a web worker,\n\t // where `global.postMessage` means
something completely different and can't be used for this purpose.\n\t if (global.postMessage &&
!global.importScripts) {\n\t var postMessageIsAsynchronous = true;\n\t var oldOnMessage =
global.onmessage;\n\t global.onmessage = function () {\n\t postMessageIsAsynchronous = false;\n\t
};\n\t global.postMessage("", "*");\n\t
global.onmessage = oldOnMessage;\n\t return postMessageIsAsynchronous;\n\t }\n\t }\n\t\n\t function installPostMessageImplementation() {\n\t // Installs an event handler on `global` for the `message`
event: see\n\t // * https://developer.mozilla.org/en/DOM/window.postMessage\n\t // *
http://www.whatwg.org/specs/web-apps/current-work/multipage/comms.html#crossDocumentMessages\n\t\n\t
var messagePrefix = "setImmediate$" + Math.random() + "$";\n\t var onGlobalMessage = function
onGlobalMessage(event) {\n\t if (event.source === global && typeof event.data === "string" &&
event.data.indexOf(messagePrefix) === 0) {\n\t runIfPresent(+event.data.slice(messagePrefix.length));\n\t
}\n\t };\n\t\n\t if (global.addEventListener) {\n\t global.addEventListener("message",
onGlobalMessage, false);\n\t } else {\n\t global.attachEvent("onmessage",
onGlobalMessage);\n\t }\n\t\n\t registerImmediate = function registerImmediate(handle) {\n\t
global.postMessage(messagePrefix + handle, "*");\n\t };\n\t }\n\t\n\t function
installMessageChannelImplementation() {\n\t var channel = new MessageChannel();\n\t
channel.port1.onmessage = function (event) {\n\t var handle = event.data;\n\t runIfPresent(handle);\n\t
};\n\t\n\t registerImmediate = function registerImmediate(handle) {\n\t
channel.port2.postMessage(handle);\n\t };\n\t }\n\t\n\t function installReadyStateChangeImplementation()
{\n\t var html = doc.documentElement;\n\t registerImmediate = function registerImmediate(handle) {\n\t
// Create a <script> element; its readystatechange event will be fired asynchronously once it is inserted\n\t
// into the document. Do so, thus queuing up the task. Remember to clean up once it's been called.\n\t
var script = doc.createElement("script");\n\t script.onreadystatechange = function () {\n\t
runIfPresent(handle);\n\t script.onreadystatechange = null;\n\t html.removeChild(script);\n\t
script = null;\n\t };\n\t html.appendChild(script);\n\t };\n\t }\n\t\n\t function
installSetTimeoutImplementation() {\n\t registerImmediate = function registerImmediate(handle) {\n\t
setTimeout(runIfPresent, 0, handle);\n\t };\n\t }\n\t\n\t // If supported, we should attach to the prototype of
global, since that is where setTimeout et al. live.\n\t var attachTo = Object.getPrototypeOf &&
Object.getPrototypeOf(global);\n\t attachTo = attachTo && attachTo.setTimeout ? attachTo : global;\n\t\n\t //
Don't get fooled by e.g. browserify environments.\n\t if (({}).toString.call(global.process) === "[object process]")
{\n\t // For Node.js
before 0.9\n\t installNextTickImplementation();\n\t } else if (canUsePostMessage()) {\n\t // For non-IE10
modern browsers\n\t installPostMessageImplementation();\n\t } else if (global.MessageChannel) {\n\t //
For web workers, where supported\n\t installMessageChannelImplementation();\n\t } else if (doc &&
"onreadystatechange" in doc.createElement("script")) {\n\t // For IE 6-8\n\t
installReadyStateChangeImplementation();\n\t } else {\n\t // For older browsers\n\t
installSetTimeoutImplementation();\n\t }\n\t\n\t attachTo.setImmediate = setImmediate;\n\t
attachTo.clearImmediate = clearImmediate;\n\t})(typeof self === "undefined" ? typeof global === "undefined" ?

```





```

!:= undefined ? arguments[1] : \"root\";\n\t\n\t // XXX: We should transform fieldName as a full field path
string.\n\t var errorList = [];\n\t if (\n\t\t \"__errors\" in errorSchema) {\n\t\t errorList =
errorList.concat(errorSchema.__errors.map(function (stack) {\n\t\t\t return {\n\t\t\t\t stack: fieldName + \": \" +
stack\n\t\t\t\t };\n\t\t\t });\n\t\t });\n\t\t return Object.keys(errorSchema).reduce(function (acc, key) {\n\t\t\t if (key !==
\"__errors\") {\n\t\t\t\t acc = acc.concat(toErrorList(errorSchema[key], key));\n\t\t\t\t }\n\t\t\t return acc;\n\t\t },
errorList);\n\t\t}\n\t\t\n\t\tfunction createErrorHandler(formData) {\n\t\t\t var handler = {\n\t\t\t\t // We store the list of errors
for this node in a property named __errors\n\t\t\t\t // to avoid name collision with a possible sub schema field
named\n\t\t\t\t // \"errors\" (see `utils.toErrorSchema`).\n\t\t\t\t __errors: [],\n\t\t\t\t addError: function addError(message)
{\n\t\t\t\t\t this.__errors.push(message);\n\t\t\t\t\t }\n\t\t\t\t };\n\t\t\t\t if ((0, _utils.isObject)(formData))
{\n\t\t\t\t\t return Object.keys(formData).reduce(function (acc, key) {\n\t\t\t\t\t\t return _extends({}, acc,
_defineProperty({}, key, createErrorHandler(formData[key]));\n\t\t\t\t\t\t }, handler);\n\t\t\t\t\t }\n\t\t\t\t\t if
(Array.isArray(formData)) {\n\t\t\t\t\t\t return formData.reduce(function (acc, value, key) {\n\t\t\t\t\t\t\t return _extends({},
acc, _defineProperty({}, key, createErrorHandler(value));\n\t\t\t\t\t\t\t }, handler);\n\t\t\t\t\t\t }\n\t\t\t\t\t\t return
handler;\n\t\t\t\t\t}\n\t\t\t\t\n\t\t\t\tfunction unwrapErrorHandler(errorHandler) {\n\t\t\t\t\t return
Object.keys(errorHandler).reduce(function (acc, key) {\n\t\t\t\t\t\t if (key === \"addError\") {\n\t\t\t\t\t\t\t return acc;\n\t\t\t\t\t\t }
else if (key === \"__errors\") {\n\t\t\t\t\t\t\t return _extends({}, acc, _defineProperty({}, key, errorHandler[key]));\n\t\t\t\t\t\t }
}\n\t\t\t\t\t\t return _extends({}, acc, _defineProperty({}, key, unwrapErrorHandler(errorHandler[key]));\n\t\t\t\t\t\t },
{});\n\t\t\t\t\t}\n\t\t\t\t\n\t\t\t\t**\n\t\t\t\t * Transforming the error output from ajv to format used by jsonschema.\n\t\t\t\t * At some point,
components should be updated

```

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to support ajv.\n\t\t * \n\t\t\tfunction transformAjvErrors() {\n\t\t\t\t var errors = arguments.length > 0 && arguments[0]
!:= undefined ? arguments[0] : [];\n\t\t\t\t\n\t\t\t\t if (errors === null) {\n\t\t\t\t\t return [];\n\t\t\t\t }\n\t\t\t\t\n\t\t\t\t return
errors.map(function (e) {\n\t\t\t\t\t var dataPath = e.dataPath,\n\t\t\t\t\t\t keyword = e.keyword,\n\t\t\t\t\t\t message =
e.message,\n\t\t\t\t\t\t params = e.params;\n\t\t\t\t\t\t\n\t\t\t\t\t\t var property = \"\" + dataPath;\n\t\t\t\t\t\t // put data in expected
format\n\t\t\t\t\t\t return {\n\t\t\t\t\t\t\t name: keyword,\n\t\t\t\t\t\t\t property: property,\n\t\t\t\t\t\t\t message: message,\n\t\t\t\t\t\t\t params:
params,\n\t\t\t\t\t\t\t // specific to ajv\n\t\t\t\t\t\t\t stack: (property + \" \" + message).trim()\n\t\t\t\t\t\t\t };\n\t\t\t\t\t\t });\n\t\t\t\t\t}\n\t\t\t\t\n\t\t\t\t**\n\t\t\t\t * This
function processes the formData with a user `validate` contributed\n\t\t\t\t * function, which receives the form data and
an `errorHandler` object that\n\t\t\t\t * will be used to add custom validation errors for each field.\n\t\t\t\t * \n\t\t\t\t\tfunction
validateFormData(formData, schema, customValidate, transformErrors) {\n\t\t\t\t\t

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ajv.validate(schema, formData);\n\t\t\n\t\t var errors = transformAjvErrors(ajv.errors);\n\t\t\n\t\t if (typeof
transformErrors === \"function\") {\n\t\t\t errors = transformErrors(errors);\n\t\t\t }\n\t\t\t\n\t\t var errorSchema =
toErrorSchema(errors);\n\t\t\n\t\t if (typeof customValidate !== \"function\") {\n\t\t\t return { errors: errors,
errorSchema: errorSchema };\n\t\t\t }\n\t\t\t\n\t\t var errorHandler = customValidate(formData,
createErrorHandler(formData));\n\t\t\t\n\t\t var userErrorSchema = unwrapErrorHandler(errorHandler);\n\t\t\t\n\t\t var
newErrorSchema = (0, _utils.mergeObjects)(errorSchema, userErrorSchema, true);\n\t\t\t // XXX: The errors list
produced is not fully compliant with the format\n\t\t\t // exposed by the jsonschema lib, which contains full field paths
and other\n\t\t\t // properties.\n\t\t\t\n\t\t var newErrors = toErrorList(newErrorSchema);\n\t\t\t\n\t\t return { errors: newErrors,
errorSchema: newErrorSchema };\n\t\t\t}\n\t\t\t\n\t\t\n\t\t**\n\t\t\n\t\t * 14 *\n\t\t\n\t\t**\n\t\t\n\t\t function(module, exports) {\n\t\t\t\n\t\t\t * WEBPACK
VAR INJECTION */(function(global)

```

```

{ 'use strict';\n\t\t\n\t\t\t var _typeof = typeof Symbol === \"function\" && typeof Symbol.iterator === \"symbol\" ?
function (obj) { return typeof obj; } : function (obj) { return obj && typeof Symbol === \"function\" &&
obj.constructor === Symbol && obj !== Symbol.prototype ? \"symbol\" : typeof obj; };\n\t\t\t\n\t\t\t**\n\t\t\t * lodash
(Custom Build) <https://lodash.com/>\n\t\t\t * Build: `lodash modularize exports=\"npm\" -o .` \n\t\t\t * Copyright jQuery
Foundation and other contributors <https://jquery.org/>\n\t\t\t * Released under MIT license
<https://lodash.com/license>\n\t\t\t * Based on Underscore.js 1.8.3 <http://underscorejs.org/LICENSE>\n\t\t\t * Copyright
Jeremy Ashkenas, DocumentCloud and Investigative Reporters & Editors\n\t\t\t * \n\t\t\t\n\t\t\t**\n\t\t\t * Used as the `TypeError`
message for \"Functions\" methods. *\n\t\t\t\n\t\t\t var FUNC_ERROR_TEXT = 'Expected a function';\n\t\t\t\n\t\t\t**\n\t\t\t * Used to
stand-in for `undefined` hash values. *\n\t\t\t\n\t\t\t var HASH_UNDEFINED = '__lodash_hash_undefined__';\n\t\t\t\n\t\t\t**\n\t\t\t * Used as references for various `Number`

```



```

The hash to modify.\n\t * @param {string} key The key of the value to remove.\n\t * @returns {boolean} Returns
`true` if the entry was removed, else `false`.\n\t */\n\tfunction hashDelete(key) {\n\t  return this.has(key) && delete
this.__data__[key];\n\t}\n\t\n\t/**\n\t * Gets the hash value for `key`.\n\t * @private\n\t * @name get\n\t * @memberOf Hash\n\t * @param {string} key The key of the value to get.\n\t * @returns {*} Returns the entry
value.\n\t */\n\tfunction hashGet(key) {\n\t  var data = this.__data__;\n\t  if (nativeCreate) {\n\t    var result =
data[key];\n\t    return result === HASH_UNDEFINED ? undefined : result;\n\t  }\n\t  return
hasOwnProperty.call(data, key) ? data[key] : undefined;\n\t}\n\t\n\t/**\n\t * Checks if a hash value for
`key` exists.\n\t * @private\n\t * @name has\n\t * @memberOf Hash\n\t * @param {string} key The key of
the entry to check.\n\t * @returns {boolean} Returns `true` if an entry for `key` exists, else `false`.\n\t */\n\tfunction
hashHas(key) {\n\t  var data = this.__data__;\n\t  return nativeCreate ? data[key] !== undefined :
hasOwnProperty.call(data, key);\n\t}\n\t\n\t/**\n\t * Sets the hash `key` to `value`.\n\t * @private\n\t * @name
set\n\t * @memberOf Hash\n\t * @param {string} key The key of the value to set.\n\t * @param {*} value The
value to set.\n\t * @returns {Object} Returns the hash instance.\n\t */\n\tfunction hashSet(key, value) {\n\t  var data
= this.__data__;\n\t  data[key] = nativeCreate && value === undefined ? HASH_UNDEFINED : value;\n\t  return
this;\n\t}\n\t\n\t// Add methods to `Hash`.\n\tHash.prototype.clear = hashClear;\n\tHash.prototype['delete'] =
hashDelete;\n\tHash.prototype.get = hashGet;\n\tHash.prototype.has = hashHas;\n\tHash.prototype.set =
hashSet;\n\t\n\t/**\n\t * Creates a list cache object.\n\t * @private\n\t * @constructor\n\t * @param {Array} [entries] The key-
value pairs to cache.\n\t */\n\tfunction ListCache(entries) {\n\t  var index = -1,\n\t      length = entries ? entries.length
: 0;\n\t  this.clear();\n\t  while (++index < length) {\n\t    var entry = entries[index];\n\t    this.set(entry[0],
entry[1]);\n\t  }\n\t}\n\t\n\t/**\n\t * Removes all key-value entries from the list cache.\n\t * @private\n\t * @name
clear\n\t * @memberOf ListCache\n\t */\n\tfunction listCacheClear() {\n\t  this.__data__ =
[];\n\t}\n\t\n\t/**\n\t * Removes `key` and its value from the list cache.\n\t * @private\n\t * @name delete\n\t *
@memberOf ListCache\n\t * @param {string} key The key of the value to remove.\n\t * @returns {boolean}
Returns `true` if the entry was removed, else `false`.\n\t */\n\tfunction listCacheDelete(key) {\n\t  var data =
this.__data__,\n\t      index = assocIndexOf(data, key);\n\t  if
(index < 0) {\n\t    return false;\n\t  }\n\t  var lastIndex = data.length - 1;\n\t  if (index == lastIndex) {\n\t    data.pop();\n\t  } else {\n\t    splice.call(data, index, 1);\n\t  }\n\t  return true;\n\t}\n\t\n\t/**\n\t * Gets the list cache
value for `key`.\n\t * @private\n\t * @name get\n\t * @memberOf ListCache\n\t * @param {string} key The
key of the value to get.\n\t * @returns {*} Returns the entry value.\n\t */\n\tfunction listCacheGet(key) {\n\t  var
data = this.__data__,\n\t      index = assocIndexOf(data, key);\n\t  return index < 0 ? undefined :
data[index][1];\n\t}\n\t\n\t/**\n\t * Checks if a list cache value for `key` exists.\n\t * @private\n\t * @name
has\n\t * @memberOf ListCache\n\t * @param {string} key The key of the entry to check.\n\t * @returns {boolean}
Returns `true` if an entry for `key` exists, else `false`.\n\t */\n\tfunction listCacheHas(key) {\n\t  return
assocIndexOf(this.__data__, key) > -1;\n\t}\n\t\n\t/**\n\t * Sets the list cache
`key` to `value`.\n\t * @private\n\t * @name set\n\t * @memberOf ListCache\n\t * @param {string} key The
key of the value to set.\n\t * @param {*} value The value to set.\n\t * @returns {Object} Returns the list cache
instance.\n\t */\n\tfunction listCacheSet(key, value) {\n\t  var data = this.__data__,\n\t      index =
assocIndexOf(data, key);\n\t  if (index < 0) {\n\t    data.push([key, value]);\n\t  } else {\n\t    data[index][1] =
value;\n\t  }\n\t  return this;\n\t}\n\t\n\t// Add methods to `ListCache`.\n\tListCache.prototype.clear =
listCacheClear;\n\tListCache.prototype['delete'] = listCacheDelete;\n\tListCache.prototype.get =
listCacheGet;\n\tListCache.prototype.has = listCacheHas;\n\tListCache.prototype.set = listCacheSet;\n\t\n\t/**\n\t * Creates a map cache object to store key-value pairs.\n\t * @private\n\t * @constructor\n\t * @param {Array}
[entries] The key-value pairs to cache.\n\t */\n\tfunction MapCache(entries) {\n\t  var index = -1,\n\t      length =
entries ? entries.length : 0;\n\t  this.clear();\n\t  while (++index < length) {\n\t    var entry = entries[index];\n\t    this.set(entry[0], entry[1]);\n\t  }\n\t}\n\t\n\t/**\n\t * Removes all key-value entries from the map.\n\t * @private\n\t * @name
clear\n\t * @memberOf MapCache\n\t */\n\tfunction mapCacheClear() {\n\t  this.__data__ =
{\n\t    'hash': new Hash(),\n\t    'map': new (Map || ListCache)(),\n\t    'string': new Hash()\n\t  };\n\t}\n\t\n\t/**

```

```

Removes `key` and its value from the map.\n\t *\n\t * @private\n\t * @name delete\n\t * @memberOf
MapCache\n\t * @param {string} key The key of the value to remove.\n\t * @returns {boolean} Returns `true` if
the entry was removed, else `false`.\n\t * ^\n\tfunction mapCacheDelete(key) {\n\t return getMapData(this,
key)['delete'](key);\n\t}\n\t\n\t\n\t**\n\t * Gets the map value for `key`.\n\t *\n\t * @private\n\t * @name get\n\t *
@memberOf MapCache\n\t * @param {string} key The key of the value to get.\n\t * @returns
{*} Returns the entry value.\n\t * ^\n\tfunction mapCacheGet(key) {\n\t return getMapData(this,
key).get(key);\n\t}\n\t\n\t\n\t**\n\t * Checks if a map value for `key` exists.\n\t *\n\t * @private\n\t * @name has\n\t *
@memberOf MapCache\n\t * @param {string} key The key of the entry to check.\n\t * @returns {boolean} Returns
`true` if an entry for `key` exists, else `false`.\n\t * ^\n\tfunction mapCacheHas(key) {\n\t return getMapData(this,
key).has(key);\n\t}\n\t\n\t\n\t**\n\t * Sets the map `key` to `value`.\n\t *\n\t * @private\n\t * @name set\n\t *
@memberOf MapCache\n\t * @param {string} key The key of the value to set.\n\t * @param {*} value The value
to set.\n\t * @returns {Object} Returns the map cache instance.\n\t * ^\n\tfunction mapCacheSet(key, value) {\n\t
getMapData(this, key).set(key, value);\n\t return this;\n\t}\n\t\n\t\n\t// Add methods to
`MapCache`.\n\t\n\tMapCache.prototype.clear = mapCacheClear;\n\t\n\tMapCache.prototype['delete'] =
mapCacheDelete;\n\t\n\tMapCache.prototype.get = mapCacheGet;\n\t\n\tMapCache.prototype.has
= mapCacheHas;\n\t\n\tMapCache.prototype.set = mapCacheSet;\n\t\n\t\n\t**\n\t * Gets the index at which the `key` is
found in `array` of key-value pairs.\n\t *\n\t * @private\n\t * @param {Array} array The array to inspect.\n\t *
@param {*} key The key to search for.\n\t * @returns {number} Returns the index of the matched value, else `-
1`.\n\t * ^\n\tfunction assocIndexOf(array, key) {\n\t var length = array.length;\n\t while (length--) {\n\t if
(eq(array[length][0], key)) {\n\t return length;\n\t } }\n\t return -1;\n\t}\n\t\n\t\n\t**\n\t * The base
implementation of `_isNative` without bad shim checks.\n\t *\n\t * @private\n\t * @param {*} value The value to
check.\n\t * @returns {boolean} Returns `true` if `value` is a native function,\n\t * else `false`.\n\t * ^\n\tfunction
baseIsNative(value) {\n\t if (!isObject(value) || isMasked(value)) {\n\t return false;\n\t } }\n\t var pattern =
isFunction(value) || isHostObject(value) ? reIsNative
: reIsHostCtor;\n\t return pattern.test(toSource(value));\n\t}\n\t\n\t\n\t**\n\t * The base implementation of `_toString`
which doesn't convert nullish\n\t * values to empty strings.\n\t *\n\t * @private\n\t * @param {*} value The value to
process.\n\t * @returns {string} Returns the string.\n\t * ^\n\tfunction baseToString(value) {\n\t // Exit early for
strings to avoid a performance hit in some environments.\n\t if (typeof value == 'string') {\n\t return value;\n\t
}\n\t if (isSymbol(value)) {\n\t return symbolToString ? symbolToString.call(value) : '';\n\t } }\n\t var result =
value + '';\n\t return result == '0' && 1 / value == -INFINITY ? '-0' : result;\n\t}\n\t\n\t\n\t**\n\t * Copies the values of
`source` to `array`.\n\t *\n\t * @private\n\t * @param {Array} source The array to copy values from.\n\t * @param
{Array} [array=[]] The array to copy values to.\n\t * @returns {Array} Returns `array`.\n\t * ^\n\tfunction
copyArray(source, array) {\n\t var index = -1,\n\t length = source.length;\n\t array || (array = Array(length));\n\t while (++index < length) {\n\t array[index] =
source[index];\n\t } }\n\t return array;\n\t}\n\t\n\t\n\t**\n\t * Gets the data for `map`.\n\t *\n\t * @private\n\t * @param
{Object} map The map to query.\n\t * @param {string} key The reference key.\n\t * @returns {*} Returns the map
data.\n\t * ^\n\tfunction getMapData(map, key) {\n\t var data = map.__data__;\n\t return isKeyable(key) ?
data[typeof key == 'string' ? 'string' : 'hash'] : data.map;\n\t}\n\t\n\t\n\t**\n\t * Gets the native function at `key` of
`object`.\n\t *\n\t * @private\n\t * @param {Object} object The object to query.\n\t * @param {string} key The key
of the method to get.\n\t * @returns {*} Returns the function if it's native, else `undefined`.\n\t * ^\n\tfunction
getNative(object, key) {\n\t var value = getValue(object, key);\n\t return baseIsNative(value) ? value :
undefined;\n\t}\n\t\n\t\n\t**\n\t * Checks if `value` is suitable for use as unique
object key.\n\t *\n\t * @private\n\t * @param {*} value The value to check.\n\t * @returns {boolean} Returns
`true` if `value` is suitable, else `false`.\n\t * ^\n\tfunction isKeyable(value) {\n\t var type = typeof value ===
'undefined' ? 'undefined' : _typeof(value);\n\t return type == 'string' || type == 'number' || type == 'symbol' || type ==
'boolean' ? value !== '__proto__' : value === null;\n\t}\n\t\n\t\n\t**\n\t * Checks if `func` has its source masked.\n\t *\n\t
*\n\t * @private\n\t * @param {Function} func The function to check.\n\t * @returns {boolean} Returns `true` if
`func` is masked, else `false`.\n\t * ^\n\tfunction isMasked(func) {\n\t return !!maskSrcKey && maskSrcKey in

```





```

Returns `true` if `value` is a function, else `false`.
@example
function isFunction(value) {
  // The use of `Object#toString`
  // avoids issues with the `typeof` operator
  // in Safari 8-9 which returns 'object' for typed array and other
  // constructors.
  var tag = Object.prototype.toString.call(value);
  return tag === 'function' || tag === 'GeneratorFunction';
}
Checks if `value` is the [language type] (http://www.ecma-international.org/ecma-262/7.0/#sec-ecmascript-language-types) of `Object` (e.g. arrays, functions, objects, regexes, `new Number(0)`, and `new String(')`.
@example
function isObject(value) {
  // Returns `true` if `value` is an object,
  // else `false`.
  return typeof value === 'object' ||
    typeof value === 'function' ||
    value instanceof Object;
}
Checks if `value` is object-like. A value is object-like if it's not `null` and has a `typeof` result of `"object"`.
@example
function isObjectLike(value) {
  // Returns `true` if `value` is object-like, else `false`.
  return !!(value && (typeof value === 'object' || typeof value === 'function'));
}
Checks if `value` is classified as a `Symbol` primitive or object.
@example
function isSymbol(value) {
  // Returns `true` if `value` is a symbol, else `false`.
  return typeof value === 'symbol' ||
    (typeof value !== 'object' ||
      Object.prototype.toString.call(value) === '[object Symbol]');
}
Converts `value` to a string. An empty string is returned for `null` and `undefined` values. The sign of `-0` is preserved.
@example
function toString(value) {
  // Returns the string.
  return value == null ? '' : baseToString(value);
}
Converts `value` to a property path array.
@example
function toPath(value) {
  // Returns the new property path array.
  return isArray(value) ? arrayMap(value, toKey) :
    !isSymbol(value) ? [value] : copyArray(stringToPath(value));
}
webpack
function webpack(module, exports, __webpack_require__) {
  'use strict';
  var __typeOf =
    typeof Symbol === 'function' && typeof Symbol.iterator === 'symbol' ?
    function(obj) { return typeof obj; } :
    function(obj) { return obj && typeof Symbol === 'function' && obj.constructor === Symbol && obj !== Symbol.prototype ? 'symbol' : typeof obj; };
  var compileSchema = __webpack_require__(16),
    resolve = __webpack_require__(17),
    Cache = __webpack_require__(37),
    SchemaObject = __webpack_require__(28),
    stableStringify = __webpack_require__(31),
    formats = __webpack_require__(38),
    rules = __webpack_require__(39),
    $dataMetaSchema = __webpack_require__(62),
    patternGroups = __webpack_require__(63),
    util = __webpack_require__(26),
    co = __webpack_require__(36);
  module.exports = Ajv.prototype.validate = validate;
  Ajv.prototype.compile = compile;
  Ajv.prototype.addSchema = addSchema;
  Ajv.prototype.addMetaSchema = addMetaSchema;
  Ajv.prototype.validateSchema = validateSchema;
  Ajv.prototype.getSchema

```



```

@param {Object} schema schema
object\n\t * @param {String} key optional schema key\n\t * @param {Boolean} skipValidation true to skip schema
validation, can be used to override validateSchema option for meta-schema\n\t */\n\tfunction
addMetaSchema(schema, key, skipValidation) {\n\t this.addSchema(schema, key, skipValidation,
true);\n\t}\n\t\n\t/**\n\t * Validate schema\n\t * @this Ajv\n\t * @param {Object} schema schema to validate\n\t *
@param {Boolean} throwOrLogError pass true to throw (or log) an error if invalid\n\t * @return {Boolean} true if
schema is valid\n\t */\n\tfunction validateSchema(schema, throwOrLogError) {\n\t var $schema =
schema.$schema;\n\t if ($schema !== undefined && typeof $schema !== 'string') throw new Error('$schema must be
a string');\n\t $schema = $schema || this._opts.defaultMeta || defaultMeta(this);\n\t if (!$schema) {\n\t
console.warn('meta-schema not available');\n\t this.errors = null;\n\t return true;\n\t }\n\t var currentUriFormat
= this._formats.uri;\n\t this._formats.uri
= typeof currentUriFormat === 'function' ? this._schemaUriFormatFunc : this._schemaUriFormat;\n\t var valid;\n\t
try {\n\t valid = this.validate($schema, schema);\n\t } finally {\n\t this._formats.uri = currentUriFormat;\n\t
}\n\t if (!valid && throwOrLogError) {\n\t var message = 'schema is invalid: ' + this.errorsText();\n\t if
(this._opts.validateSchema === 'log') console.error(message);else throw new Error(message);\n\t }\n\t return
valid;\n\t}\n\t\n\tfunction defaultMeta(self) {\n\t var meta = self._opts.meta;\n\t self._opts.defaultMeta = (typeof
meta === 'undefined' ? 'undefined' : _typeof(meta)) === 'object' ? self._getId(meta) || meta :
self.getSchema(META_SCHEMA_ID) ? META_SCHEMA_ID : undefined;\n\t return
self._opts.defaultMeta;\n\t}\n\t\n\t/**\n\t * Get compiled schema from the instance by `key` or `ref`.\n\t * @this
Ajv\n\t * @param {String} keyRef `key` that was passed to `addSchema` or full schema reference (`schema.id` or
resolved id).\n\t
* @return {Function} schema validating function (with property `schema`).\n\t */\n\tfunction getSchema(keyRef)
{\n\t var schemaObj = _getSchemaObj(this, keyRef);\n\t switch (typeof schemaObj === 'undefined' ? 'undefined' :
_typeof(schemaObj)) {\n\t case 'object':\n\t return schemaObj.validate || this._compile(schemaObj);\n\t case
'string':\n\t return this.getSchema(schemaObj);\n\t case 'undefined':\n\t return _getSchemaFragment(this,
keyRef);\n\t }\n\t}\n\t\n\tfunction _getSchemaFragment(self, ref) {\n\t var res = resolve.schema.call(self, { schema:
{} }, ref);\n\t if (res) {\n\t var schema = res.schema,\n\t root = res.root,\n\t baseId = res.baseId;\n\t var v
= compileSchema.call(self, schema, root, undefined, baseId);\n\t self._fragments[ref] = new SchemaObject({\n\t
ref: ref,\n\t fragment: true,\n\t schema: schema,\n\t root: root,\n\t baseId: baseId,\n\t validate: v\n\t
});\n\t return v;\n\t
}\n\t}\n\t\n\tfunction _getSchemaObj(self, keyRef) {\n\t keyRef = resolve.normalizeId(keyRef);\n\t return
self._schemas[keyRef] || self._refs[keyRef] || self._fragments[keyRef];\n\t}\n\t\n\t/**\n\t * Remove cached
schema(s).\n\t * If no parameter is passed all schemas but meta-schemas are removed.\n\t * If RegExp is passed all
schemas with key/id matching pattern but meta-schemas are removed.\n\t * Even if schema is referenced by other
schemas it still can be removed as other schemas have local references.\n\t * @this Ajv\n\t * @param
{String|Object|RegExp} schemaKeyRef key, ref, pattern to match key/ref or schema object\n\t */\n\tfunction
removeSchema(schemaKeyRef) {\n\t if (schemaKeyRef instanceof RegExp) {\n\t _removeAllSchemas(this,
this._schemas, schemaKeyRef);\n\t _removeAllSchemas(this, this._refs, schemaKeyRef);\n\t return;\n\t }\n\t
switch (typeof schemaKeyRef === 'undefined' ? 'undefined' : _typeof(schemaKeyRef)) {\n\t case 'undefined':\n\t
_removeAllSchemas(this,
this._schemas);\n\t _removeAllSchemas(this, this._refs);\n\t this._cache.clear();\n\t return;\n\t case
'string':\n\t var schemaObj = _getSchemaObj(this, schemaKeyRef);\n\t if (schemaObj)
this._cache.del(schemaObj.cacheKey);\n\t delete this._schemas[schemaKeyRef];\n\t delete
this._refs[schemaKeyRef];\n\t return;\n\t case 'object':\n\t var serialize = this._opts.serialize;\n\t var
cacheKey = serialize ? serialize(schemaKeyRef) : schemaKeyRef;\n\t this._cache.del(cacheKey);\n\t var id =
this._getId(schemaKeyRef);\n\t if (id) {\n\t id = resolve.normalizeId(id);\n\t delete this._schemas[id];\n\t
delete this._refs[id];\n\t }\n\t }\n\t}\n\t\n\tfunction _removeAllSchemas(self, schemas, regex) {\n\t for (var
keyRef in schemas) {\n\t var schemaObj = schemas[keyRef];\n\t if (!schemaObj.meta && (!regex ||

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```

regex.test(keyRef)) {\n\t\t\t\t\t self._cache.del(schemaObj.cacheKey);\n\t\t\t\t\t delete schemas[keyRef];\n\t\t\t\t\t }\n\t\t\t\t\t }\n\t\t\t\t\t }*\n\t\t\t\t\t @this Ajv *\n\t\t\t\t\t /\n\t\t\t\t\t function _addSchema(schema,\n\t\t\t\t\t skipValidation, meta, shouldAddSchema) {\n\t\t\t\t\t if ((typeof schema === 'undefined' ? 'undefined' : _typeof(schema))\n\t\t\t\t\t != 'object' && typeof schema != 'boolean') throw new Error('schema should be object or boolean');\n\t\t\t\t\t var serialize\n\t\t\t\t\t = this._opts.serialize;\n\t\t\t\t\t var cacheKey = serialize ? serialize(schema) : schema;\n\t\t\t\t\t var cached =\n\t\t\t\t\t this._cache.get(cacheKey);\n\t\t\t\t\t if (cached) return cached;\n\t\t\t\t\t }\n\t\t\t\t\t }\n\t\t\t\t\t shouldAddSchema = shouldAddSchema ||\n\t\t\t\t\t this._opts.addUsedSchema !== false;\n\t\t\t\t\t var id = resolve.normalizeId(this._getId(schema));\n\t\t\t\t\t if (id &&\n\t\t\t\t\t shouldAddSchema) checkUnique(this, id);\n\t\t\t\t\t var willValidate = this._opts.validateSchema !== false &&\n\t\t\t\t\t !skipValidation;\n\t\t\t\t\t var recursiveMeta;\n\t\t\t\t\t if (willValidate && !(recursiveMeta = id && id ==\n\t\t\t\t\t resolve.normalizeId(schema.$schema))) this.validateSchema(schema, true);\n\t\t\t\t\t var localRefs =\n\t\t\t\t\t resolve.ids.call(this, schema);\n\t\t\t\t\t var schemaObj\n\t\t\t\t\t = new SchemaObject({\n\t\t\t\t\t id: id,\n\t\t\t\t\t schema: schema,\n\t\t\t\t\t localRefs: localRefs,\n\t\t\t\t\t cacheKey: cacheKey,\n\t\t\t\t\t meta: meta\n\t\t\t\t\t });\n\t\t\t\t\t if (id[0] != '#' && shouldAddSchema) this._refs[id] = schemaObj;\n\t\t\t\t\t this._cache.put(cacheKey, schemaObj);\n\t\t\t\t\t if (willValidate && recursiveMeta) this.validateSchema(schema,\n\t\t\t\t\t true);\n\t\t\t\t\t return schemaObj;\n\t\t\t\t\t }\n\t\t\t\t\t }*\n\t\t\t\t\t @this Ajv *\n\t\t\t\t\t /\n\t\t\t\t\t function _compile(schemaObj, root) {\n\t\t\t\t\t if\n\t\t\t\t\t (schemaObj.compiling) {\n\t\t\t\t\t schemaObj.validate = callValidate;\n\t\t\t\t\t callValidate.schema =\n\t\t\t\t\t schemaObj.schema;\n\t\t\t\t\t callValidate.errors = null;\n\t\t\t\t\t callValidate.root = root ? root : callValidate;\n\t\t\t\t\t if\n\t\t\t\t\t (schemaObj.schema.$async === true) callValidate.$async = true;\n\t\t\t\t\t return callValidate;\n\t\t\t\t\t }\n\t\t\t\t\t schemaObj.compiling = true;\n\t\t\t\t\t var currentOpts;\n\t\t\t\t\t if (schemaObj.meta) {\n\t\t\t\t\t currentOpts = this._opts;\n\t\t\t\t\t this._opts = this._metaOpts;\n\t\t\t\t\t }\n\t\t\t\t\t var v;\n\t\t\t\t\t try {\n\t\t\t\t\t v = compileSchema.call(this, schemaObj.schema,\n\t\t\t\t\t root, schemaObj.localRefs);\n\t\t\t\t\t } finally {\n\t\t\t\t\t schemaObj.compiling = false;\n\t\t\t\t\t if (schemaObj.meta) this._opts\n\t\t\t\t\t = currentOpts;\n\t\t\t\t\t }\n\t\t\t\t\t schemaObj.validate = v;\n\t\t\t\t\t schemaObj.refs = v.refs;\n\t\t\t\t\t schemaObj.refVal =\n\t\t\t\t\t v.refVal;\n\t\t\t\t\t schemaObj.root = v.root;\n\t\t\t\t\t return v;\n\t\t\t\t\t }\n\t\t\t\t\t function callValidate() {\n\t\t\t\t\t var _validate =\n\t\t\t\t\t schemaObj.validate;\n\t\t\t\t\t var result = _validate.apply(null, arguments);\n\t\t\t\t\t callValidate.errors =\n\t\t\t\t\t _validate.errors;\n\t\t\t\t\t return result;\n\t\t\t\t\t }\n\t\t\t\t\t }\n\t\t\t\t\t }\n\t\t\t\t\t function chooseGetId(opts) {\n\t\t\t\t\t switch (opts.schemaId) {\n\t\t\t\t\t case '$id':\n\t\t\t\t\t return _getId;\n\t\t\t\t\t case 'id':\n\t\t\t\t\t return _getId;\n\t\t\t\t\t default:\n\t\t\t\t\t return _getIdOrId;\n\t\t\t\t\t }\n\t\t\t\t\t }\n\t\t\t\t\t }\n\t\t\t\t\t function _getId(schema) {\n\t\t\t\t\t if (schema.$id) console.warn('schema $id ignored', schema.$id);\n\t\t\t\t\t return schema.id;\n\t\t\t\t\t }\n\t\t\t\t\t }\n\t\t\t\t\t function _getIdOrId(schema)\n\t\t\t\t\t {\n\t\t\t\t\t if (schema.$id && schema.id && schema.$id != schema.id) throw new Error('schema $id is different from\n\t\t\t\t\t id');\n\t\t\t\t\t return schema.$id || schema.id;\n\t\t\t\t\t }\n\t\t\t\t\t }*\n\t\t\t\t\t * Convert array of error message objects to string\n\t\t\t\t\t *\n\t\t\t\t\t @this Ajv\n\t\t\t\t\t *\n\t\t\t\t\t @param {Array<Object>} errors optional array of validation errors, if not passed errors from the\n\t\t\t\t\t instance are used.\n\t\t\t\t\t *\n\t\t\t\t\t @param {Object} options optional options with properties `separator` and `dataVar`.\n\t\t\t\t\t *\n\t\t\t\t\t @return {String} human readable string with all errors descriptions\n\t\t\t\t\t *\n\t\t\t\t\t /\n\t\t\t\t\t function errorsText(errors, options)\n\t\t\t\t\t {\n\t\t\t\t\t errors = errors || this.errors;\n\t\t\t\t\t if (!errors) return 'No errors';\n\t\t\t\t\t options = options || {};\n\t\t\t\t\t var separator =\n\t\t\t\t\t options.separator === undefined ? ', ' : options.separator;\n\t\t\t\t\t var dataVar = options.dataVar === undefined ? 'data':\n\t\t\t\t\t options.dataVar;\n\t\t\t\t\t var text = '';\n\t\t\t\t\t for (var i = 0; i < errors.length; i++) {\n\t\t\t\t\t var e = errors[i];\n\t\t\t\t\t if (e) text\n\t\t\t\t\t += dataVar + e.dataPath + ' ' + e.message\n\t\t\t\t\t + separator;\n\t\t\t\t\t }\n\t\t\t\t\t return text.slice(0, -separator.length);\n\t\t\t\t\t }\n\t\t\t\t\t }*\n\t\t\t\t\t * Add custom format\n\t\t\t\t\t *\n\t\t\t\t\t @this\n\t\t\t\t\t Ajv\n\t\t\t\t\t *\n\t\t\t\t\t @param {String} name format name\n\t\t\t\t\t *\n\t\t\t\t\t @param {String|RegExp|Function} format string is converted\n\t\t\t\t\t to RegExp; function should return boolean (true when valid)\n\t\t\t\t\t *\n\t\t\t\t\t /\n\t\t\t\t\t function addFormat(name, format) {\n\t\t\t\t\t if\n\t\t\t\t\t (typeof format == 'string') format = new RegExp(format);\n\t\t\t\t\t this._formats[name] = format;\n\t\t\t\t\t }\n\t\t\t\t\t }\n\t\t\t\t\t function\n\t\t\t\t\t addDraft6MetaSchema(self) {\n\t\t\t\t\t var $dataSchema;\n\t\t\t\t\t if (self._opts.$data) {\n\t\t\t\t\t $dataSchema =\n\t\t\t\t\t __webpack_require__(67);\n\t\t\t\t\t self.addMetaSchema($dataSchema, $dataSchema.$id, true);\n\t\t\t\t\t }\n\t\t\t\t\t if\n\t\t\t\t\t (self._opts.meta === false) return;\n\t\t\t\t\t var metaSchema = __webpack_require__(68);\n\t\t\t\t\t if (self._opts.$data)\n\t\t\t\t\t metaSchema = $dataMetaSchema(metaSchema, META_SUPPORT_DATA);\n\t\t\t\t\t self.addMetaSchema(metaSchema, META_SCHEMA_ID, true);\n\t\t\t\t\t self._refs['http://json-schema.org/schema'] =\n\t\t\t\t\t META_SCHEMA_ID;\n\t\t\t\t\t }\n\t\t\t\t\t }\n\t\t\t\t\t function\n\t\t\t\t\t addInitialSchemas(self)

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    {\n\t var optsSchemas = self._opts.schemas;\n\t if (!optsSchemas) return;\n\t if (Array.isArray(optsSchemas))
self.addSchema(optsSchemas);else for (var key in optsSchemas) {\n\t self.addSchema(optsSchemas[key], key);\n\t
}\n\t}\n\t\n\t\tfunction addInitialFormats(self) {\n\t for (var name in self._opts.formats) {\n\t var format =
self._opts.formats[name];\n\t self.addFormat(name, format);\n\t }\n\t}\n\t\n\t\tfunction checkUnique(self, id) {\n\t
if (self._schemas[id] || self._refs[id]) throw new Error('schema with key or id \'' + id + '\' already
exists');\n\t}\n\t\n\t\tfunction getMetaSchemaOptions(self) {\n\t var metaOpts = util.copy(self._opts);\n\t for (var i =
0; i < META_IGNORE_OPTIONS.length; i++) {\n\t delete metaOpts[META_IGNORE_OPTIONS[i]];\n\t
}\n\t return metaOpts;\n\t}\n\t\n\t\t/** */,\n\t\t/** */ 16 */\n\t\t/** */ function(module, exports, __webpack_require__) {\n\t\n\t\t'use
strict';\n\t\n\t\tvar _typeof = typeof Symbol === \"function\" && typeof Symbol.iterator === \"symbol\" ? function
(obj) { return typeof obj; } : function (obj) { return obj && typeof Symbol === \"function\" && obj.constructor
=== Symbol && obj !== Symbol.prototype ? \"symbol\" : typeof obj; };
\n\t\n\t\tvar resolve =
__webpack_require__(17),\n\t\t util = __webpack_require__(26),\n\t\t errorClasses =
__webpack_require__(30),\n\t\t stableStringify = __webpack_require__(31);\n\t\n\t\tvar validateGenerator =
__webpack_require__(35);\n\t\n\t\t/** */\n\t\t * Functions below are used inside compiled validations function\n\t\t
*/\n\t\t\n\t\tvar co = __webpack_require__(36);\n\t\tvar ucs2length = util.ucs2length;\n\t\tvar equal =
__webpack_require__(25);\n\t\n\t\t// this error is thrown by async schemas to return validation errors via
exception\n\t\tvar ValidationError = errorClasses.Validation;\n\t\n\t\tmodule.exports = compile;\n\t\n\t\t/** */\n\t\t *
Compiles schema to validation function\n\t\t * @this Ajv\n\t\t * @param {Object} schema schema object\n\t\t *
@param {Object} root object with information about the root schema for this
schema\n\t\t * @param {Object} localRefs the hash of local references inside the schema (created by resolve.id),
used for inline resolution\n\t\t * @param {String} baseId base ID for IDs in the schema\n\t\t * @return {Function}
validation function\n\t\t */\n\t\tfunction compile(schema, root, localRefs, baseId) {\n\t\t /* jshint validthis: true, evil:
true */\n\t\t /* eslint no-shadow: 0 */\n\t\t var self = this,\n\t\t opts = this._opts,\n\t\t refVal = [undefined],\n\t\t
refs = {},\n\t\t patterns = [],\n\t\t patternsHash = {},\n\t\t defaults = [],\n\t\t defaultsHash = {},\n\t\t
customRules = [];\n\t\n\t\t root = root || { schema: schema, refVal: refVal, refs: refs };\n\t\n\t\t var c =
checkCompiling.call(this, schema, root, baseId);\n\t\t var compilation = this._compilations[c.index];\n\t\t if
(c.compiling) return compilation.callValidate = callValidate;\n\t\n\t\t var formats = this._formats;\n\t\t var RULES =
this.RULES;\n\t\n\t\t try {\n\t\t var v = localCompile(schema, root,
localRefs, baseId);\n\t\t compilation.validate = v;\n\t\t var cv = compilation.callValidate;\n\t\t if (cv) {\n\t\t
cv.schema = v.schema;\n\t\t cv.errors = null;\n\t\t cv.refs = v.refs;\n\t\t cv.refVal = v.refVal;\n\t\t cv.root =
v.root;\n\t\t cv.$async = v.$async;\n\t\t if (opts.sourceCode) cv.source = v.source;\n\t\t }\n\t\t return v;\n\t\t }
finally {\n\t\t endCompiling.call(this, schema, root, baseId);\n\t\t }\n\t\n\t\t function callValidate() {\n\t\t var validate
= compilation.validate;\n\t\t var result = validate.apply(null, arguments);\n\t\t callValidate.errors =
validate.errors;\n\t\t return result;\n\t\t }\n\t\n\t\t function localCompile(_schema, _root, localRefs, baseId) {\n\t\t var
isRoot = !_root || _root && _root.schema === _schema;\n\t\t if (_root.schema !== root.schema) return
compile.call(self, _schema, _root, localRefs, baseId);\n\t\n\t\t var $async = _schema.$async === true;\n\t\t var
sourceCode = validateGenerator({\n\t\t isTop: true,\n\t\t
schema: _schema,\n\t\t isRoot: isRoot,\n\t\t baseId: baseId,\n\t\t root: _root,\n\t\t schemaPath: '',\n\t\t
errSchemaPath: '#',\n\t\t errorPath: '\\\\',\n\t\t MissingRefError: errorClasses.MissingRef,\n\t\t RULES:
RULES,\n\t\t validate: validateGenerator,\n\t\t util: util,\n\t\t resolve: resolve,\n\t\t resolveRef: resolveRef,\n\t\t
usePattern: usePattern,\n\t\t useDefault: useDefault,\n\t\t useCustomRule: useCustomRule,\n\t\t opts:
opts,\n\t\t formats: formats,\n\t\t self: self\n\t\t });\n\t\n\t\t sourceCode = vars(refVal, refValCode) +
vars(patterns, patternCode) + vars(defaults, defaultCode) + vars(customRules, customRuleCode) +
sourceCode;\n\t\n\t\t if (opts.processCode) sourceCode = opts.processCode(sourceCode);\n\t\t //
console.log('\\n\\n\\n *** \\n', JSON.stringify(sourceCode));\n\t\t var validate;\n\t\t try {\n\t\t var makeValidate =
new Function('self', 'RULES', 'formats', 'root', 'refVal', 'defaults',
'customRules', 'co', 'equal', 'ucs2length', 'ValidationError', sourceCode);\n\t\t validate = makeValidate(self,
RULES, formats, root, refVal, defaults, customRules, co, equal, ucs2length, ValidationError);\n\t\t refVal[0] =

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validate;\n\t } catch (e) {\n\t console.error('Error compiling schema, function code:', sourceCode);\n\t throw
e;\n\t }\n\t validate.schema = _schema;\n\t validate.errors = null;\n\t validate.refs = refs;\n\t
validate.refVal = refVal;\n\t validate.root = isRoot ? validate : _root;\n\t if ($async) validate.$async = true;\n\t
if (opts.sourceCode === true) {\n\t validate.source = {\n\t code: sourceCode,\n\t patterns: patterns,\n\t
defaults: defaults\n\t };\n\t }\n\t return validate;\n\t }\n\t function resolveRef(baseId, ref, isRoot) {\n\t
ref = resolve.url(baseId, ref);\n\t var refIndex = refs[ref];\n\t var _refVal, refCode;\n\t if (refIndex !==
undefined)
{\n\t _refVal = refVal[refIndex];\n\t refCode = 'refVal[' + refIndex + ']';\n\t return resolvedRef(_refVal,
refCode);\n\t }\n\t if (!isRoot && root.refs) {\n\t var rootRefId = root.refs[ref];\n\t if (rootRefId !==
undefined) {\n\t _refVal = root.refVal[rootRefId];\n\t refCode = addLocalRef(ref, _refVal);\n\t return
resolvedRef(_refVal, refCode);\n\t }\n\t }\n\t refCode = addLocalRef(ref);\n\t var v = resolve.call(self,
localCompile, root, ref);\n\t if (v === undefined) {\n\t var localSchema = localRefs && localRefs[ref];\n\t if
(localSchema) {\n\t v = resolve.inlineRef(localSchema, opts.inlineRefs) ? localSchema : compile.call(self,
localSchema, root, localRefs, baseId);\n\t }\n\t }\n\t if (v === undefined) {\n\t
removeLocalRef(ref);\n\t } else {\n\t replaceLocalRef(ref, v);\n\t return resolvedRef(v, refCode);\n\t }\n\t
}\n\t function addLocalRef(ref, v)
{\n\t var refId = refVal.length;\n\t refVal[refId] = v;\n\t refs[ref] = refId;\n\t return 'refVal' + refId;\n\t
}\n\t function removeLocalRef(ref) {\n\t delete refs[ref];\n\t }\n\t function replaceLocalRef(ref, v) {\n\t
var refId = refs[ref];\n\t refVal[refId] = v;\n\t }\n\t function resolvedRef(refVal, code) {\n\t return (typeof
refVal === 'undefined' ? 'undefined' : _typeof(refVal)) === 'object' || typeof refVal === 'boolean' ? { code: code,
schema: refVal, inline: true } : { code: code, $async: refVal && refVal.$async };\n\t }\n\t function
usePattern(regexStr) {\n\t var index = patternsHash[regexStr];\n\t if (index === undefined) {\n\t index =
patternsHash[regexStr] = patterns.length;\n\t patterns[index] = regexStr;\n\t }\n\t return 'pattern' + index;\n\t
}\n\t function useDefault(value) {\n\t switch (typeof value === 'undefined' ? 'undefined' : _typeof(value)) {\n\t
case 'boolean':\n\t case 'number':\n\t return '' + value;\n\t case 'string':\n\t return util.toQuotedString(value);\n\t case 'object':\n\t if
(value === null) return 'null';\n\t var valueStr = stableStringify(value);\n\t var index =
defaultsHash[valueStr];\n\t if (index === undefined) {\n\t index = defaultsHash[valueStr] =
defaults.length;\n\t defaults[index] = value;\n\t }\n\t return 'default' + index;\n\t }\n\t }\n\t function
useCustomRule(rule, schema, parentSchema, it) {\n\t var validateSchema =
rule.definition.validateSchema;\n\t if (validateSchema && self._opts.validateSchema !== false) {\n\t var valid
= validateSchema(schema);\n\t if (!valid) {\n\t var message = 'keyword schema is invalid: ' +
self.errorsText(validateSchema.errors);\n\t if (self._opts.validateSchema === 'log') console.error(message);else
throw new Error(message);\n\t }\n\t }\n\t var compile = rule.definition.compile,\n\t inline = rule.definition.inline,\n\t macro = rule.definition.macro;\n\t var validate;\n\t if (compile)
{\n\t validate = compile.call(self, schema, parentSchema, it);\n\t } else if (macro) {\n\t validate =
macro.call(self, schema, parentSchema, it);\n\t if (opts.validateSchema !== false) self.validateSchema(validate,
true);\n\t } else if (inline) {\n\t validate = inline.call(self, it, rule.keyword, schema, parentSchema);\n\t } else
{\n\t validate = rule.definition.validate;\n\t if (!validate) return;\n\t }\n\t if (validate === undefined)
throw new Error('custom keyword "' + rule.keyword + '" failed to compile');\n\t var index =
customRules.length;\n\t customRules[index] = validate;\n\t return {\n\t code: 'customRule' + index,\n\t
validate: validate\n\t };\n\t }\n\t } * Checks if the schema is currently compiled\n\t * @this Ajv\n\t *
@param {Object} schema
schema to compile\n\t * @param {Object} root root object\n\t * @param {String} baseId base schema ID\n\t *
@return {Object} object with properties \"index\" (compilation index) and \"compiling\" (boolean)\n\t */\n\t function
checkCompiling(schema, root, baseId) {\n\t /* jshint validthis: true *\n\t var index = compIndex.call(this, schema,
root, baseId);\n\t if (index >= 0) return { index: index, compiling: true };\n\t index = this._compilations.length;\n\t
this._compilations[index] = {\n\t schema: schema,\n\t root: root,\n\t baseId: baseId\n\t };\n\t return { index:

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(slashesDenoteHost || proto || rest.match(/^\s*\s*[\^@\/\+]{1,4}) { \n\t var slashes = rest.substr(0, 2) ===
  //'; \n\t if (slashes && !(proto && hostlessProtocol[proto])) { \n\t rest = rest.substr(2); \n\t this.slashes =
true; \n\t } \n\t } \n\t } \n\t if (!hostlessProtocol[proto] && (slashes || proto && !slashedProtocol[proto])) { \n\t \n\t //
there's a hostname. \n\t // the first instance of /, ?, :, or # ends the host. \n\t // \n\t // If there is an @ in the
hostname, then non-host chars *are* allowed \n\t // to the left of the last @ sign, unless some host-ending
character \n\t // comes *before* the @-sign. \n\t
  // URLs are obnoxious. \n\t // \n\t // ex: \n\t // http://a@b@c/ => user:a@b host:c \n\t // http://a@b?@c =>
user:a host:c path:/?@c \n\t \n\t // v0.12 TODO(isaacs): This is not quite how Chrome does things. \n\t // Review
our test case against browsers more comprehensively. \n\t \n\t // find the first instance of any hostEndingChars \n\t
var hostEnd = -1; \n\t for (var i = 0; i < hostEndingChars.length; i++) { \n\t var hec =
rest.indexOf(hostEndingChars[i]); \n\t if (hec !== -1 && (hostEnd === -1 || hec < hostEnd)) hostEnd = hec; \n\t
} \n\t \n\t // at this point, either we have an explicit point where the \n\t // auth portion cannot go past, or the last @
char is the decider. \n\t var auth, atSign; \n\t if (hostEnd === -1) { \n\t // atSign can be anywhere. \n\t atSign
= rest.lastIndexOf('@'); \n\t } else { \n\t // atSign must be in auth portion. \n\t // http://a@b/c@d => host:b
auth:a path:/c@d \n\t atSign = rest.lastIndexOf('@',
  hostEnd); \n\t } \n\t \n\t // Now we have a portion which is definitely the auth. \n\t // Pull that off. \n\t if (atSign
!== -1) { \n\t auth = rest.slice(0, atSign); \n\t rest = rest.slice(atSign + 1); \n\t this.auth =
decodeURIComponent(auth); \n\t } \n\t \n\t // the host is the remaining to the left of the first non-host char \n\t
hostEnd = -1; \n\t for (var i = 0; i < nonHostChars.length; i++) { \n\t var hec =
rest.indexOf(nonHostChars[i]); \n\t if (hec !== -1 && (hostEnd === -1 || hec < hostEnd)) hostEnd = hec; \n\t
} \n\t // if we still have not hit it, then the entire thing is a host. \n\t if (hostEnd === -1) hostEnd =
rest.length; \n\t \n\t this.host = rest.slice(0, hostEnd); \n\t rest = rest.slice(hostEnd); \n\t \n\t // pull out port. \n\t
this.parseHost(); \n\t \n\t // we've indicated that there is a hostname, \n\t // so even if it's empty, it has to be
present. \n\t this.hostname = this.hostname || ''; \n\t \n\t // if hostname
begins with [ and ends with ] \n\t // assume that it's an IPv6 address. \n\t var ipv6Hostname = this.hostname[0]
=== '[' && this.hostname[this.hostname.length - 1] === ']'; \n\t \n\t // validate a little. \n\t if (!ipv6Hostname) { \n\t
var hostparts = this.hostname.split(/\./); \n\t for (var i = 0, l = hostparts.length; i < l; i++) { \n\t var part =
hostparts[i]; \n\t if (!part) continue; \n\t if (!part.match(hostnamePartPattern)) { \n\t var newpart = ''; \n\t
for (var j = 0, k = part.length; j < k; j++) { \n\t if (part.charCodeAt(j) > 127) { \n\t // we replace
non-ASCII char with a temporary placeholder \n\t // we need this to make sure size of hostname is not \n\t
// broken by replacing non-ASCII by nothing \n\t newpart += 'x'; \n\t } else { \n\t newpart
+= part[j]; \n\t } \n\t } \n\t // we test again with ASCII char only \n\t
if (!newpart.match(hostnamePartPattern)) { \n\t var validParts = hostparts.slice(0, i); \n\t var
notHost = hostparts.slice(i + 1); \n\t var bit = part.match(hostnamePartStart); \n\t if (bit) { \n\t
validParts.push(bit[1]); \n\t notHost.unshift(bit[2]); \n\t } \n\t if (notHost.length) { \n\t
rest = '"' + notHost.join('.') + rest; \n\t } \n\t this.hostname = validParts.join('.'); \n\t break; \n\t
} \n\t } \n\t } \n\t } \n\t if (this.hostname.length > hostnameMaxLen) { \n\t this.hostname = ''; \n\t }
else { \n\t // hostnames are always lower case. \n\t this.hostname = this.hostname.toLowerCase(); \n\t } \n\t \n\t
if (!ipv6Hostname) { \n\t // IDNA Support: Returns a puny coded representation of "domain". \n\t // It only
converts the part of the domain name that \n\t // has non ASCII characters. I.e.
it doesnt matter if \n\t // you call it with a domain that already is in ASCII. \n\t var domainArray =
this.hostname.split('.'); \n\t var newOut = []; \n\t for (var i = 0; i < domainArray.length; ++i) { \n\t var s =
domainArray[i]; \n\t newOut.push(s.match(/^[^A-Za-z0-9_-]/) ? 'xn--' + punycode.encode(s) : s); \n\t } \n\t
this.hostname = newOut.join('.'); \n\t } \n\t \n\t var p = this.port ? ':' + this.port : ''; \n\t var h = this.hostname ||
''; \n\t this.host = h + p; \n\t this.href += this.host; \n\t \n\t // strip [ and ] from the hostname \n\t // the host field
still retains them, though \n\t if (ipv6Hostname) { \n\t this.hostname = this.hostname.substr(1,
this.hostname.length - 2); \n\t if (rest[0] !== '/') { \n\t rest = '/' + rest; \n\t } \n\t } \n\t } \n\t } \n\t // now rest is
set to the post-host stuff. \n\t // chop off any delim chars. \n\t if (!unsafeProtocol[lowerProto]) { \n\t \n\t // First,

```

make 100% sure

```
that any \"autoEscape\" chars get\n\t // escaped, even if encodeURIComponent doesn't think they\n\t // need to
be.\n\t for (var i = 0, l = autoEscape.length; i < l; i++) {\n\t\t var ae = autoEscape[i];\n\t\t var esc =
encodeURIComponent(ae);\n\t\t if (esc === ae) {\n\t\t\t esc = escape(ae);\n\t\t\t }\n\t\t rest =
rest.split(ae).join(esc);\n\t\t }\n\t\t }\n\t\t // chop off from the tail first.\n\t\t var hash = rest.indexOf('#');\n\t\t if (hash
!==-1) {\n\t\t\t // got a fragment string.\n\t\t\t this.hash = rest.substr(hash);\n\t\t\t rest = rest.slice(0, hash);\n\t\t\t }\n\t\t var
qm = rest.indexOf('?');\n\t\t if (qm !== -1) {\n\t\t\t this.search = rest.substr(qm);\n\t\t\t this.query = rest.substr(qm +
1);\n\t\t\t if (parseQueryString) {\n\t\t\t\t this.query = querystring.parse(this.query);\n\t\t\t\t }\n\t\t\t rest = rest.slice(0,
qm);\n\t\t\t } else if (parseQueryString) {\n\t\t\t\t // no query string, but parseQueryString still requested\n\t\t\t\t this.search
= \";\n\t\t\t\t this.query =
};\n\t\t\t }\n\t\t if (rest) this.pathname = rest;\n\t\t if (slashedProtocol[lowerProto] && this.hostname &&
!this.pathname) {\n\t\t\t this.pathname = '/';\n\t\t\t }\n\t\t\t //to support http.request\n\t\t\t if (this.pathname || this.search)
{\n\t\t\t\t var p = this.pathname || \";\n\t\t\t\t var s = this.search || \";\n\t\t\t\t this.path = p + s;\n\t\t\t\t }\n\t\t\t\t // finally,
reconstruct the href based on what has been validated.\n\t\t\t\t this.href = this.format();\n\t\t\t\t return this;\n\t\t\t\t }\n\t\t\t\t //
format a parsed object into a url string\n\t\t\t\t function urlFormat(obj) {\n\t\t\t\t\t // ensure it's an object, and not a string
url.\n\t\t\t\t\t // If it's an obj, this is a no-op.\n\t\t\t\t\t // this way, you can call url_format() on strings\n\t\t\t\t\t // to clean up
potentially wonky urls.\n\t\t\t\t\t if (isString(obj)) obj = urlParse(obj);\n\t\t\t\t\t if (!(obj instanceof Url)) return
Url.prototype.format.call(obj);\n\t\t\t\t\t return obj.format();\n\t\t\t\t\t }\n\t\t\t\t\t Url.prototype.format = function () {\n\t\t\t\t\t\t var auth =
this.auth || \";\n\t\t\t\t\t\t if (auth) {\n\t\t\t\t\t\t\t auth = encodeURIComponent(auth);\n\t\t\t\t\t\t\t auth = auth.replace(/%3A/i, ':');\n\t\t\t\t\t\t\t auth += '@';\n\t\t\t\t\t\t\t }\n\t\t\t\t\t\t\t var protocol = this.protocol || \";\n\t\t\t\t\t\t\t pathname =
this.pathname || \";\n\t\t\t\t\t\t\t hash = this.hash || \";\n\t\t\t\t\t\t\t host = false;\n\t\t\t\t\t\t\t query = \";\n\t\t\t\t\t\t\t if (this.host) {\n\t\t\t\t\t\t\t\t host =
auth + this.host;\n\t\t\t\t\t\t\t } else if (this.hostname) {\n\t\t\t\t\t\t\t\t host = auth + (this.hostname.indexOf('.') === -1 ? this.hostname
: '[' + this.hostname + ']');\n\t\t\t\t\t\t\t\t if (this.port) {\n\t\t\t\t\t\t\t\t\t host += ':' + this.port;\n\t\t\t\t\t\t\t\t\t }\n\t\t\t\t\t\t\t\t }\n\t\t\t\t\t\t\t\t if (this.query &&
isObject(this.query) && Object.keys(this.query).length) {\n\t\t\t\t\t\t\t\t\t query = querystring.stringify(this.query);\n\t\t\t\t\t\t\t\t\t }\n\t\t\t\t\t\t\t\t\t var search = this.search || query && '?' + query || \";\n\t\t\t\t\t\t\t\t\t if (protocol && protocol.substr(-1) !== ':')
protocol += ':';\n\t\t\t\t\t\t\t\t\t // only the slashedProtocols get the //. Not mailto:, xmpp:, etc.\n\t\t\t\t\t\t\t\t\t // unless they had them to
begin with.\n\t\t\t\t\t\t\t\t\t if (this.slashes || (!protocol || slashedProtocol[protocol]) && host !== false)
{\n\t\t\t\t\t\t\t\t\t\t host = '/' + (host || \");\n\t\t\t\t\t\t\t\t\t\t if (pathname && pathname.charAt(0) !== '/') pathname = '/' + pathname;\n\t\t\t\t\t\t\t\t\t\t }\n\t\t\t\t\t\t\t\t\t\t else if (!host) {\n\t\t\t\t\t\t\t\t\t\t\t host = \";\n\t\t\t\t\t\t\t\t\t\t\t }\n\t\t\t\t\t\t\t\t\t\t\t if (hash && hash.charAt(0) !== '#') hash = '#' + hash;\n\t\t\t\t\t\t\t\t\t\t\t if (search &&
search.charAt(0) !== '?') search = '?' + search;\n\t\t\t\t\t\t\t\t\t\t\t pathname = pathname.replace(/[#]/g, function (match) {\n\t\t\t\t\t\t\t\t\t\t\t\t return
encodeURIComponent(match);\n\t\t\t\t\t\t\t\t\t\t\t\t });\n\t\t\t\t\t\t\t\t\t\t\t search = search.replace('#', '%23');\n\t\t\t\t\t\t\t\t\t\t\t return protocol + host +
pathname + search + hash;\n\t\t\t\t\t\t\t\t\t\t\t }\n\t\t\t\t\t\t\t\t\t\t\t function urlResolve(source, relative) {\n\t\t\t\t\t\t\t\t\t\t\t\t return urlParse(source, false,
true).resolve(relative);\n\t\t\t\t\t\t\t\t\t\t\t\t }\n\t\t\t\t\t\t\t\t\t\t\t\t Url.prototype.resolve = function (relative) {\n\t\t\t\t\t\t\t\t\t\t\t\t\t return
this.resolveObject(urlParse(relative, false, true)).format();\n\t\t\t\t\t\t\t\t\t\t\t\t\t }\n\t\t\t\t\t\t\t\t\t\t\t\t\t function urlResolveObject(source, relative)
{\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t if (!source) return relative;\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t return urlParse(source, false,
true).resolveObject(relative);\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t }\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t Url.prototype.resolveObject = function (relative) {\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t if (isString(relative))
{\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t var rel = new Url();\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t rel.parse(relative, false, true);\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t relative = rel;\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t }\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t var result = new
Url();\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t Object.keys(this).forEach(function (k) {\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t result[k] = this[k];\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t }, this);\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t // hash is always
overridden, no matter what.\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t // even href=\"\" will remove it.\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t result.hash = relative.hash;\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t // if the
relative url is empty, then there's nothing left to do here.\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t if (relative.href === \"\") {\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t result.href =
result.format();\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t return result;\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t }\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t // hrefs like //foo/bar always cut to the protocol.\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t if
(relative.slashes && !relative.protocol) {\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t // take everything except the protocol from relative\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t Object.keys(relative).forEach(function (k) {\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t if (k !== 'protocol') result[k] = relative[k];\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t });\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t }\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t //urlParse appends trailing / to urls like http://www.example.com\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t if (slashedProtocol[result.protocol] &&
result.hostname && !result.pathname)
{\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t result.path = result.pathname = '/';\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t }\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t result.href = result.format();\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t return result;\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t }\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t if (relative.protocol && relative.protocol !== result.protocol) {\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t // if it's a known url protocol, then
changing\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t // the protocol does weird things\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t // first, if it's not file:, then we MUST have a host,\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t // and if
```

```

there was a path\n\t // to begin with, then we MUST have a path.\n\t // if it is file:, then the host is dropped,\n\t
// because that's known to be hostless.\n\t // anything else is assumed to be absolute.\n\t if
(!slashedProtocol[relative.protocol]) {\n\t   Object.keys(relative).forEach(function (k) {\n\t     result[k] =
relative[k];\n\t   });\n\t   result.href = result.format();\n\t   return result;\n\t }\n\t\n\t result.protocol =
relative.protocol;\n\t if (!relative.host && !hostlessProtocol[relative.protocol]) {\n\t   var relPath =
(relative.pathname || "").split("/");\n\t
  while (relPath.length && !(relative.host = relPath.shift())) {\n\t     if (!relative.host) relative.host = ";\n\t     if
(!relative.hostname) relative.hostname = ";\n\t     if (relPath[0] !== "") relPath.unshift("");\n\t     if (relPath.length < 2)
relPath.unshift("");\n\t     result.pathname = relPath.join("/");\n\t   } else {\n\t     result.pathname =
relative.pathname;\n\t   }\n\t   result.search = relative.search;\n\t   result.query = relative.query;\n\t   result.host =
relative.host || ";\n\t   result.auth = relative.auth;\n\t   result.hostname = relative.hostname || relative.host;\n\t
  result.port = relative.port;\n\t   // to support http.request\n\t   if (result.pathname || result.search) {\n\t     var p =
result.pathname || ";\n\t     var s = result.search || ";\n\t     result.path = p + s;\n\t   }\n\t   result.slashes =
result.slashes || relative.slashes;\n\t   result.href = result.format();\n\t   return result;\n\t }\n\t\n\t var isSourceAbs
= result.pathname && result.pathname.charAt(0) === ');\n\t   isRelAbs = relative.host || relative.pathname &&
relative.pathname.charAt(0) === ');\n\t   mustEndAbs = isRelAbs || isSourceAbs || result.host &&
relative.pathname;\n\t   removeAllDots = mustEndAbs;\n\t   srcPath = result.pathname &&
result.pathname.split("/") || [];\n\t   relPath = relative.pathname && relative.pathname.split("/") || [];\n\t   psychotic
= result.protocol && !slashedProtocol[result.protocol];\n\t\n\t // if the url is a non-slashed url, then relative\n\t //
links like ../. should be able\n\t // to crawl up to the hostname, as well. This is strange.\n\t // result.protocol has
already been set by now.\n\t // Later on, put the first path part into the host field.\n\t if (psychotic) {\n\t
  result.hostname = ";\n\t   result.port = null;\n\t   if (result.host) {\n\t     if (srcPath[0] === "") srcPath[0] =
result.host;else srcPath.unshift(result.host);\n\t   }\n\t   result.host
= ";\n\t   if (relative.protocol) {\n\t     relative.hostname = null;\n\t     relative.port = null;\n\t     if (relative.host)
{\n\t       if (relPath[0] === "") relPath[0] = relative.host;else relPath.unshift(relative.host);\n\t     }\n\t     relative.host = null;\n\t   }\n\t   mustEndAbs = mustEndAbs && (relPath[0] === "" || srcPath[0] === "");\n\t }\n\t\n\t if (isRelAbs) {\n\t   // it's absolute.\n\t   result.host = relative.host || relative.host === "" ? relative.host :
result.host;\n\t   result.hostname = relative.hostname || relative.hostname === "" ? relative.hostname :
result.hostname;\n\t   result.search = relative.search;\n\t   result.query = relative.query;\n\t   srcPath = relPath;\n\t
  // fall through to the dot-handling below.\n\t } else if (relPath.length) {\n\t   // it's relative\n\t   // throw away the
existing file, and take the new path instead.\n\t   if (!srcPath) srcPath = [];\n\t   srcPath.pop();\n\t   srcPath =
srcPath.concat(relPath);\n\t
  result.search = relative.search;\n\t   result.query = relative.query;\n\t } else if
(!isNullOrUndefined(relative.search)) {\n\t   // just pull out the search.\n\t   // like href='?foo'.\n\t   // Put this after
the other two cases because it simplifies the booleans\n\t   if (psychotic) {\n\t     result.hostname = result.host =
srcPath.shift();\n\t     //occasionally the auth can get stuck only in host\n\t     //this especially happens in cases like\n\t
  //url.resolveObject('mailto:local1@domain1', 'local2@domain2')\n\t     var authInHost = result.host &&
result.host.indexOf('@') > 0 ? result.host.split('@') : false;\n\t     if (authInHost) {\n\t       result.auth =
authInHost.shift();\n\t       result.host = result.hostname = authInHost.shift();\n\t     }\n\t   }\n\t   result.search =
relative.search;\n\t   result.query = relative.query;\n\t   //to support http.request\n\t   if (!isNull(result.pathname) ||
!isNull(result.search)) {\n\t     result.path = (result.pathname
? result.pathname : "") + (result.search ? result.search : ");\n\t   }\n\t   result.href = result.format();\n\t   return
result;\n\t }\n\t\n\t if (!srcPath.length) {\n\t   // no path at all. easy.\n\t   // we've already handled the other stuff
above.\n\t   result.pathname = null;\n\t   //to support http.request\n\t   if (result.search) {\n\t     result.path = '/' +
result.search;\n\t   } else {\n\t     result.path = null;\n\t   }\n\t   result.href = result.format();\n\t   return result;\n\t
  }\n\t\n\t // if a url ENDS in . or .., then it must get a trailing slash.\n\t // however, if it ends in anything else non-
slashy,\n\t // then it must NOT get a trailing slash.\n\t var last = srcPath.slice(-1)[0];\n\t var hasTrailingSlash =
(result.host || relative.host) && (last === '.' || last === '..') || last === ";\n\t\n\t // strip single dots, resolve double dots

```



```

* A generic error utility function.
* @private
* @param {String} type The error type.
* @returns {Error} Throws a `RangeError` with the applicable error message.
* /function error(type) {
throw RangeError(errors[type]);
}
* A generic `Array#map` utility function.
* @private
* @param {Array} array The array to iterate over.
* @param {Function} callback The function that gets called for every array
* item.
* @returns {Array} A new array of values returned by the callback function.
* /function map(array, fn) {
var length = array.length;
var result = [];
while (length--)
result[length] = fn(array[length]);
return result;
}
* A simple `Array#map`-like wrapper to work with domain name strings or email
* addresses.
* @private
* @param {String} domain The domain name or email address.
* @param {Function} callback The function that gets called for every
* character.
* @returns {Array} A new string of characters returned by the
callback
* function.
* /function mapDomain(string, fn) {
var parts = string.split('@');
var result = "";
if (parts.length > 1) {
// In email addresses, only the domain name should be punycoded.
Leave
// the local part (i.e. everything up to `@`) intact.
result = parts[0] + '@';
string = parts[1];
// Avoid `split(regex)` for IE8 compatibility. See #17.
string = string.replace(regexSeparators, '\x2E');
var labels = string.split('.');
var encoded = map(labels, fn).join('.');
return result + encoded;
}
}
* Creates an array containing the numeric code points of each Unicode
* character in the string. While JavaScript uses UCS-2 internally,
* this function will convert a pair of surrogate halves (each of which
* UCS-2 exposes as separate characters) into a single code point,
* matching UTF-16.
* @see `punycode.ucs2.encode`
* @see <https://mathiasbynens.be/notes/javascript-encoding>
* @memberOf punycode.ucs2
* @name decode
* @param {String} string The Unicode input string (UCS-2).
* @returns {Array} The new array of code points.
* /function ucs2decode(string) {
var output = [],
counter = 0,
length = string.length,
value,
extra;
while (counter < length) {
value = string.charCodeAt(counter++);
if (value >= 0xD800 && value <= 0xDBFF && counter < length) {
// high surrogate, and there is a next character
extra = string.charCodeAt(counter++);
if ((extra & 0xFC00) == 0xDC00) {
// low surrogate
output.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);
} else {
// unmatched surrogate; only append this code unit, in
case the next
// code unit is the high surrogate of a surrogate
pair
output.push(value);
counter--;
}
} else {
output.push(value);
}
}
return output;
}
* Creates a string based on an array of numeric code points.
* @see `punycode.ucs2.decode`
* @memberOf punycode.ucs2
* @name encode
* @param {Array} codePoints The array of numeric code points.
* @returns {String} The new Unicode string (UCS-2).
* /function ucs2encode(array) {
return map(array, function (value) {
var output = "";
if (value > 0xFFFF) {
value -= 0x10000;
output += stringFromCharCode(value >>> 10 & 0x3FF | 0xD800);
value = 0xDC00 | value & 0x3FF;
}
output += stringFromCharCode(value);
return output;
}).join("");
}
* Converts a basic code point into a digit/integer.
* @see `digitToBasic`
* @private
* @param {Number} codePoint The basic numeric code point value.
* @returns {Number} The numeric value of a basic code point (for use in
* representing integers) in the range `0` to `base - 1`, or `base` if
* the code point does not represent a value.
* /function basicToDigit(codePoint) {
if (codePoint - 48 < 10) {
return codePoint - 22;
}
if (codePoint - 65 < 26) {
return codePoint - 65;
}
if (codePoint - 97 < 26) {
return codePoint - 97;
}
return base;
}
* Converts a digit/integer into a basic code point.
* @see `basicToDigit`
* @private
* @param {Number} digit The numeric value of a basic code point.
* @returns {Number} The basic code point whose value (when used for
* representing integers) is `digit`, which needs to be in the range `0` to `base - 1`. If `flag` is non-zero, the uppercase form is
* used; else, the lowercase form is used. The behavior is undefined
* if `flag` is non-zero and `digit` has no uppercase form.
* /function digitToBasic(digit, flag) {
// 0..25 map to ASCII a..z or

```







```

VAR INJECTION */}.call(exports, __webpack_require__(20)(module), (function() { return this; }()))\n\n***/
},\n\n* 20 *\n\n***/ function(module, exports) {\n\n\t\t"use strict";\n\n\t\tmodule.exports = function (module) {\n\n\t\t\t(!module.webpackPolyfill) {\n\n\t\t\t\tmodule.deprecate = function () {};\n\n\t\t\t\tmodule.paths = [];\n\n\t\t\t\tmodule.parent = undefined by default\n\n\t\t\t\tmodule.children =
[\n\n\t\t\t\tmodule.webpackPolyfill = 1;\n\n\t\t\t\treturn module;\n\n\t\t};\n\n\t\n\n\t***/ },\n\n* 21 *\n\n***/ function(module,
exports) {\n\n\t\t* WEBPACK VAR INJECTION */(function(__webpack_amd_options__) { module.exports =
__webpack_amd_options__;\n\n\t\t* WEBPACK VAR INJECTION */}.call(exports, {}))\n\n\t\n\n\t***/ },\n\n* 22
*\n\n***/ function(module, exports, __webpack_require__) {\n\n\t\t"use strict";\n\n\t\texports.decode = exports.parse =
__webpack_require__(23);\n\n\t\texports.encode = exports.stringify = __webpack_require__(24);\n\n\t\n\n\t***/ },\n\n* 23
*\n\n***/ function(module, exports) {\n\n\t\t// Copyright Joyent, Inc. and other Node contributors.\n\n\t\t\n\n\t\t//
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```

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```

https://github.com/joyent/node/issues/1707\n\n\t\tfunction hasOwnProperty(obj, prop)
{\n\n\t\t\treturn Object.prototype.hasOwnProperty.call(obj, prop);\n\n\t}\n\n\t\n\n\t\tmodule.exports = function (qs, sep, eq,
options) {\n\n\t\t\tsep = sep || '&';\n\n\t\t\treq = eq || '=';\n\n\t\t\tvar obj = {};\n\n\t\t\tif (typeof qs !== 'string' || qs.length === 0)
{\n\n\t\t\t\treturn obj;\n\n\t\t}\n\n\t\t\tvar regexp = /\+/g;\n\n\t\t\tqs = qs.split(sep);\n\n\t\t\tvar maxKeys = 1000;\n\n\t\t\tif
(options && typeof options.maxKeys === 'number') {\n\n\t\t\t\tmaxKeys = options.maxKeys;\n\n\t\t}\n\n\t\t\tvar len =
qs.length;\n\n\t\t\t// maxKeys <= 0 means that we should not limit keys count\n\n\t\t\tif (maxKeys > 0 && len > maxKeys)
{\n\n\t\t\t\tlen = maxKeys;\n\n\t\t}\n\n\t\t\tfor (var i = 0; i < len; ++i) {\n\n\t\t\t\tvar x = qs[i].replace(regexp, '%20');\n\n\t\t\t\tidx = x.indexOf(req);\n\n\t\t\t\tkstr,\n\n\t\t\t\tvstr,\n\n\t\t\t\tk,\n\n\t\t\t\tv;\n\n\t\t\t\tif (idx >= 0) {\n\n\t\t\t\t\tkstr = x.substr(0,
idx);\n\n\t\t\t\t\tvstr = x.substr(idx + 1);\n\n\t\t\t\t} else {\n\n\t\t\t\t\tkstr = x;\n\n\t\t\t\t\tvstr = '';\n\n\t\t\t\t}\n\n\t\t\t\tk =
decodeURIComponent(kstr);\n\n\t\t\t\tv = decodeURIComponent(vstr);\n\n\t\t\t\tif (!hasOwnProperty(obj, k)) {\n\n\t\t\t\t\tobj[k] = v;\n\n\t\t\t\t} else if
(Array.isArray(obj[k])) {\n\n\t\t\t\t\tobj[k].push(v);\n\n\t\t\t\t} else {\n\n\t\t\t\t\tobj[k] = [obj[k], v];\n\n\t\t\t\t}\n\n\t\t\t}\n\n\t\t\treturn
obj;\n\n\t};\n\n\t\n\n\t***/ },\n\n* 24 *\n\n***/ function(module, exports) {\n\n\t\t// Copyright Joyent, Inc. and other Node
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```

```

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SOFTWARE.
'use strict';
var _typeof = typeof Symbol === "function" && typeof Symbol.iterator ===
"symbol" ? function (obj) { return typeof obj; } : function (obj) { return obj &&
typeof Symbol === "function" && obj.constructor === Symbol && obj !== Symbol.prototype ? "symbol" :
typeof obj; };
var stringifyPrimitive = function stringifyPrimitive(v) {
  switch (typeof v === 'undefined' ? 'undefined' : _typeof(v)) {
    case 'string':
      return v;
    case 'boolean':
      return v ? 'true' : 'false';
    case 'number':
      return isFinite(v) ? v : '';
    default:
      return "";
  }
};
module.exports = function (obj, sep, eq, name) {
  sep = sep || '&';
  eq = eq || '=';
  if (obj === null) {
    obj = undefined;
  }
  if ((typeof obj === 'undefined' ? 'undefined' :
_typeof(obj)) === 'object') {
    return Object.keys(obj).map(function (k) {
      var ks =
encodeURIComponent(stringifyPrimitive(k)) + eq;
      if (Array.isArray(obj[k])) {
        return
obj[k].map(function (v) {
          return ks + encodeURIComponent(stringifyPrimitive(v));
        }).join(sep);
      } else {
        return ks + encodeURIComponent(stringifyPrimitive(obj[k]));
      }
    }).join(sep);
  }
  if (!name) return "";
  return encodeURIComponent(stringifyPrimitive(name)) + eq +
encodeURIComponent(stringifyPrimitive(obj));
};
25 */
function(module, exports) {
'use strict';
var _typeof = typeof Symbol === "function" &&
typeof Symbol.iterator === "symbol" ? function (obj) { return typeof obj; } :
function (obj) { return obj && typeof Symbol === "function" && obj.constructor
=== Symbol && obj !== Symbol.prototype ? "symbol" : typeof obj; };
module.exports = function equal(a, b) {
  if (a === b) return true;
  var arrA = Array.isArray(a),
      arrB = Array.isArray(b),
      i;
  if (arrA && arrB) {
    if (a.length !== b.length) return false;
    for (i = 0; i < a.length; i++) {
      if (!equal(a[i], b[i])) return false;
    }
    if (arrA !== arrB) return false;
  }
  if (a && b && (typeof a === 'undefined' ? 'undefined' : _typeof(a)) ===
'object' && (typeof b === 'undefined' ? 'undefined' : _typeof(b)) ===
'object') {
    var keys = Object.keys(a);
    if (keys.length !== Object.keys(b).length) return false;
    var dateA = a instanceof Date,
        dateB = b instanceof Date;
    if (dateA && dateB) return a.getTime() === b.getTime();
    if (dateA !== dateB) return false;
    var regexpA = a instanceof RegExp,
        regexpB = b instanceof RegExp;
    if (regexpA && regexpB) return a.toString() === b.toString();
    if (regexpA !== regexpB) return false;
    for (i = 0; i < keys.length; i++) {
      if (!Object.prototype.hasOwnProperty.call(b, keys[i]))
return false;
    }
    for (i = 0; i < keys.length; i++) {
      if (!equal(a[keys[i]], b[keys[i]])) return false;
    }
    return false;
  }
};
26 */
function(module, exports, __webpack_require__) {
'use strict';
module.exports = {
  copy: copy,
  checkDataType: checkDataType,
  checkDataTypes: checkDataTypes,
  coerceToTypes: coerceToTypes,
  toHash: toHash,
  getProperty:
getProperty,
  escapeQuotes: escapeQuotes,
  equal: __webpack_require__(25),
  ucs2length: __webpack_require__(27),
  varOccurences:
varOccurences,
  varReplace: varReplace,
  cleanUpCode: cleanUpCode,
  finalCleanUpCode:
finalCleanUpCode,
  schemaHasRules: schemaHasRules,
  schemaHasRulesExcept:
schemaHasRulesExcept,
  toQuotedString: toQuotedString,
  getPathExpr: getPathExpr,
  getPath:
getPath,
  getData: getData,
  unescapeFragment: unescapeFragment,
  unescapeJsonPointer:
unescapeJsonPointer,
  escapeFragment: escapeFragment,
  escapeJsonPointer:
escapeJsonPointer
};
function copy(o, to) {
  to = to || {};
  for (var key in o) {
    to[key] =
o[key];
  }
  return to;
}
function checkDataType(dataType, data, negate) {
  var EQUAL = negate ?
'!=' : '===',
      AND = negate ? '||' : '&&',
      OK = negate ? '!' : "",
      NOT = negate ? "" : '!';
  switch (dataType) {
    case 'null':
      return data + EQUAL +
'null';
    case 'array':
      return OK + 'Array.isArray(' + data + ')';
    case 'object':
      return '(' + OK +
data + AND + 'typeof ' + data + EQUAL + "object" + AND + NOT +
'Array.isArray(' + data + ')';
    case 'integer':
      return '(typeof ' + data + EQUAL + "number" + AND + NOT + '(' +
data + ' % 1) + AND + data +
EQUAL + data + ')';
    default:
      return 'typeof ' + data + EQUAL + "" + dataType + "'";
  }
}
function checkDataTypes(dataTypes, data) {
  switch (dataTypes.length) {
    case 1:
      return

```



```

jsonpinter = $data;\n\t  data = 'rootData';\n\t } else {\n\t  matches =
$data.match(RELATIVE_JSON_POINTER);\n\t  if (!matches) throw new Error('Invalid JSON-pointer: ' +
$data);\n\t  up = +matches[1];\n\t  jsonpinter = matches[2];\n\t  if (jsonpinter === '#') {\n\t    if (up >= lvl)
throw new Error('Cannot
access property/index ' + up + ' levels up, current level is ' + lvl);\n\t    return paths[lvl - up];\n\t  }\n\t  if (up
> lvl) throw new Error('Cannot access data ' + up + ' levels up, current level is ' + lvl);\n\t  data = 'data' + (lvl - up ||
");\n\t  if (!jsonpinter) return data;\n\t  }\n\t  var expr = data;\n\t  var segments = jsonpinter.split('/');\n\t  for
(var i = 0; i < segments.length; i++) {\n\t    var segment = segments[i];\n\t    if (segment) {\n\t      data +=
getProperty(unescapeJsonPointer(segment));\n\t      expr += ' && ' + data;\n\t    }\n\t  }\n\t  return
expr;\n\t}\n\t\n\tfunction joinPaths(a, b) {\n\t  if (a === "") return b;\n\t  return (a + ' ' + b).replace(/\\+ /g,
");\n\t}\n\t\n\tfunction unescapeFragment(str) {\n\t  return
unescapeJsonPointer(decodeURIComponent(str));\n\t}\n\t\n\tfunction escapeFragment(str) {\n\t  return
encodeURIComponent(escapeJsonPointer(str));\n\t}\n\t\n\tfunction escapeJsonPointer(str) {\n\t  return
str.replace(/~/g, '~0').replace(/\\/g, '~1');\n\t}\n\t\n\tfunction unescapeJsonPointer(str) {\n\t  return str.replace(/~1/g,
'/').replace(/~0/g, '~');\n\t}\n\t\n\t/n***/, \n\t/n* 27 */n***/, function(module, exports) {\n\t\n\t'use strict';\n\t\n\t//
https://mathiasbynens.be/notes/javascript-encoding\n\t// https://github.com/bestiejs/punycode.js -
punycode.ucs2.decode\n\t\n\tmodule.exports = function ucs2length(str) {\n\t  var length = 0,\n\t  len =
str.length,\n\t  pos = 0,\n\t  value;\n\t  while (pos < len) {\n\t    length++;\n\t    value =
str.charCodeAt(pos++);\n\t    if (value >= 0xD800 && value <= 0xDBFF && pos < len) {\n\t      // high surrogate,
and there is a next character\n\t      value = str.charCodeAt(pos);\n\t      if ((value & 0xFC00) === 0xDC00) pos++; //
low surrogate\n\t    }\n\t  }\n\t  return length;\n\t};\n\t\n\t/n***/, \n\t/n* 28 */n***/, function(module, exports,
__webpack_require__) {\n\t\n\t'use strict';\n\t\n\tvar util = __webpack_require__(26);\n\t\n\tmodule.exports
= SchemaObject;\n\t\n\tfunction SchemaObject(obj) {\n\t  util.copy(obj, this);\n\t}\n\t\n\t/n***/, \n\t/n* 29 */n***/,
function(module, exports) {\n\t\n\t'use strict';\n\t\n\tvar _typeof = typeof Symbol === "function" && typeof
Symbol.iterator === "symbol" ? function (obj) { return typeof obj; } : function (obj) { return obj && typeof
Symbol === "function" && obj.constructor === Symbol && obj !== Symbol.prototype ? "symbol" : typeof obj;
};\n\t\n\tvar traverse = module.exports = function (schema, opts, cb) {\n\t  if (typeof opts === 'function') {\n\t    cb =
opts;\n\t    opts = {};\n\t  }\n\t  _traverse(opts, cb, schema, "", schema);\n\t};\n\t\n\ttraverse.keywords = {\n\t
additionalItems: true,\n\t items: true,\n\t contains: true,\n\t additionalProperties: true,\n\t propertyNames: true,\n\t
not: true\n\t};\n\t\n\ttraverse.arrayKeywords = {\n\t items: true,\n\t allOf: true,\n\t anyOf: true,\n\t oneOf:
true\n\t};\n\t\n\ttraverse.propsKeywords = {\n\t definitions: true,\n\t
properties: true,\n\t patternProperties: true,\n\t dependencies: true\n\t};\n\t\n\ttraverse.skipKeywords = {\n\t
enum: true,\n\t const: true,\n\t required: true,\n\t maximum: true,\n\t minimum: true,\n\t exclusiveMaximum:
true,\n\t exclusiveMinimum: true,\n\t multipleOf: true,\n\t maxLength: true,\n\t minLength: true,\n\t pattern:
true,\n\t format: true,\n\t maxItems: true,\n\t minItems: true,\n\t uniqueItems: true,\n\t maxProperties: true,\n\t
minProperties: true\n\t};\n\t\n\tfunction _traverse(opts, cb, schema, jsonPtr, rootSchema, parentJsonPtr,
parentKeyword, parentSchema, keyIndex) {\n\t  if (schema && (typeof schema === 'undefined' ? 'undefined' :
_typeof(schema)) === 'object' && !Array.isArray(schema)) {\n\t    cb(schema, jsonPtr, rootSchema, parentJsonPtr,
parentKeyword, parentSchema, keyIndex);\n\t    for (var key in schema) {\n\t      var sch = schema[key];\n\t      if
(Array.isArray(sch)) {\n\t        if (key in traverse.arrayKeywords) {\n\t          for
(var i = 0; i < sch.length; i++) {\n\t            _traverse(opts, cb, sch[i], jsonPtr + '/' + key + '/' + i, rootSchema, jsonPtr,
key, schema, i);\n\t          }\n\t        }\n\t      } else if (key in traverse.propsKeywords) {\n\t        if (sch && (typeof
sch === 'undefined' ? 'undefined' : _typeof(sch)) === 'object') {\n\t          for (var prop in sch) {\n\t            _traverse(opts, cb, sch[prop], jsonPtr + '/' + key + '/' + escapeJsonPtr(prop), rootSchema, jsonPtr, key, schema,
prop);\n\t          }\n\t        }\n\t      } else if (key in traverse.keywords || opts.allKeys && !(key in
traverse.skipKeywords)) {\n\t        _traverse(opts, cb, sch, jsonPtr + '/' + key, rootSchema, jsonPtr, key, schema);\n\t      }\n\t    }\n\t  }\n\t}\n\t\n\tfunction escapeJsonPtr(str) {\n\t  return str.replace(/~/g, '~0').replace(/\\/g,
~1');\n\t}\n\t\n\t/n***/, \n\t/n* 30 */n***/, function(module, exports, __webpack_require__) {\n\t\n\t'use strict';\n\t\n\tvar

```



```

{
  // If a c parameter is provided, verify that it matches the current character.
  if (c && c !== ch) {
    error("Expected \"" + c + "\" instead of \"" + ch + "\"");
  }
  // Get the next character. When there are no
  // more characters,
  // return the empty string.
  ch = text.charAt(at);
  at += 1;
  return ch;
},
number = function number() {
  // Parse a number value.
  var number,
      string = "";
  if (ch === '-') {
    string = '-';
    next('-');
  }
  while (ch >= '0' && ch <= '9') {
    string += ch;
    next();
  }
  if (ch === '.') {
    string += '.';
    while (next() && ch >= '0' && ch <= '9') {
      string += ch;
    }
  }
  if (ch === 'e' || ch === 'E') {
    string += ch;
    next();
    if (ch === '-' || ch === '+') {
      string += ch;
      next();
    }
    while (ch >= '0' && ch <= '9') {
      string += ch;
      next();
    }
  }
  number = +string;
  if (!isFinite(number)) {
    error("Bad number");
  }
} else {
  return number;
}
},
string = function string() {
  // Parse a string value.
  var hex,
      i,
      string = "";
  // When parsing for string values, we must look for \" and \\ characters.
  if (ch === "\"") {
    while (next()) {
      if (ch === "\\") {
        next();
        return string;
      }
      else if (ch === "\\") {
        next();
        if (ch === 'u') {
          uffff = 0;
          for (i = 0; i < 4; i += 1) {
            hex = parseInt(next(), 16);
            if (!isFinite(hex)) {
              break;
            }
            uffff = uffff * 16 + hex;
          }
          string += String.fromCharCode(uffff);
        }
      }
      else if (typeof escapee[ch] === 'string') {
        string += escapee[ch];
      }
      else {
        string += ch;
      }
    }
  }
  error("Bad string");
},
white = function white() {
  // Skip whitespace.
  while (ch &&
    ch <= ' ') {
    next();
  }
},
word = function word() {
  // true, false, or null.
  switch (ch) {
    case 't':
      next('t');
      next('r');
      next('u');
      next('e');
      return true;
    case 'f':
      next('f');
      next('a');
      next('l');
      next('s');
      next('e');
      return false;
    case 'n':
      next('n');
      next('u');
      next('l');
      next('l');
      return null;
  }
  error("Unexpected \"" + ch + "\"");
},
value, // Place holder for the value
function array() {
  // Parse an array value.
  var array = [];
  if (ch === '[') {
    next('[');
    white();
    if (ch === ']') {
      next(']');
      return array;
    }
    // empty array
    while (ch) {
      array.push(value());
      white();
      if (ch === ']') {
        next(']');
        return array;
      }
      next(',');
      white();
    }
  }
  error("Bad array");
},
function object() {
  // Parse an object value.
  var key,
      object = {};
  if (ch === '{') {
    next('{');
    white();
    if (ch === '}') {
      next('}');
      return object;
    }
    // empty object
    while (ch) {
      key = string();
      white();
      next(':');
      if (Object.hasOwnProperty.call(object, key)) {
        error('Duplicate key \'' + key + '\'');
      }
      object[key] = value();
      white();
      if (ch === '}') {
        next('}');
      }
    }
  }
  return object;
}
},
next(',');
white();
}
},
error("Bad object");
},
value = function value() {
  // Parse a JSON value. It could be an object, an array, a
  // string, a number,
  // or a word.
  white();
  switch (ch) {
    case '{':
      return object();
    case '[':
      return array();
    case '\"':
      return string();
    case '-':
      return number();
    default:
      return ch >= '0' && ch <= '9' ? number() : word();
  }
};
// Return the json_parse function. It will have access to all of the above
// functions and variables.
module.exports = function (source, reviver) {
  var result;
  text = source;
  at = 0;
  ch = '';
  result = value();
  white();
  if (ch) {
    error("Syntax error");
  }
}
// If there is a reviver function, we recursively walk the new structure,
// passing each name/value pair to the reviver function for possible
// transformation, starting with a temporary root object that holds the
// result
// in an empty key. If there is not a reviver function, we simply return the
// result.
return typeof reviver === 'function' ? function walk(holder, key) {
  var k,
      v,
      value = holder[key];
  if (value && (typeof value === 'undefined' ? 'undefined' : _typeof(value)) === 'object') {

```

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    for (k in value) {\n\t      if (Object.prototype.hasOwnProperty.call(value, k)) {\n\t        v = walk(value, k);\n\t        if (v !== undefined) {\n\t          value[k] = v;\n\t        } else {\n\t          delete value[k];\n\t        }\n\t      }\n\t    }\n\t    return revive.call(holder, key, value);\n\t  }({ ": result }, "): result;\n\t};\n\t\n\t***/ },\n\t*/ 34 */\n\t***/\n\tfunction(module, exports) {\n\t  use strict;\n\t  \n\t  var _typeof = typeof Symbol === \"function\" && typeof Symbol.iterator === \"symbol\" ? function (obj) { return typeof obj; } : function (obj) { return obj && typeof Symbol === \"function\" && obj.constructor === Symbol && obj !== Symbol.prototype ? \"symbol\" : typeof obj; }\n\t  \n\t  var cx = /[\u0000\u00ad\u0600-\u0604\u070f\u17b4\u17b5\u200c-\u200f\u2028-\u202f\u2060-\u206f\ufe0-\uff0-\uffff]/g,\n\t      escapable = /[\b\\\"'\u00-\u000f\u00ad\u0600-\u0604\u070f\u17b4\u17b5\u200c-\u200f\u2028-\u202f\u2060-\u206f\ufe0-\uff0-\uffff]/g,\n\t      gap,\n\t      indent,\n\t      meta = { // table of character substitutions\n\t        '\\b': '\\\\b',\n\t        '\\t': '\\\\t',\n\t        '\\n': '\\\\n',\n\t        '\\f': '\\\\f',\n\t        '\\r': '\\\\r',\n\t        '\\\"': '\\\\\"',\n\t        '\\\\': '\\\\\\\\',\n\t        '\\\\\\\\': '\\\\\\\\\\\\'\n\t      },\n\t      rep;\n\t  \n\t  function quote(string) {\n\t    // If the string contains no control characters, no quote characters, and no\n\t    // backslash characters, then we can safely slap some quotes around it. // Otherwise we must also\n\t    // replace the offending characters with safe escape\n\t    // sequences.\n\t    escapable.lastIndex = 0;\n\t    return escapable.test(string) ? \"'\" + string.replace(escapable, function (a) {\n\t      var c = meta[a];\n\t      return typeof c === 'string' ? c : '\\\\u' + ('0000' + a.charCodeAt(0).toString(16)).slice(-4);\n\t    }) + \"'\" : \"\" + string + \"\";\n\t  }\n\t  \n\t  function str(key, holder) {\n\t    // Produce a string from holder[key].\n\t    var i,\n\t        // The loop counter.\n\t        k,\n\t        // The member key.\n\t        v,\n\t        // The member value.\n\t        length,\n\t        mind = gap,\n\t        partial,\n\t        value = holder[key];\n\t    \n\t    // If the value has a toJSON method, call it to obtain a replacement\n\t    value.\n\t    if (value && (typeof value === 'undefined' ? 'undefined' : _typeof(value)) === 'object' && typeof value.toJSON === 'function') {\n\t      value = value.toJSON(key);\n\t    }\n\t    \n\t    // If we were called with a replacer function, then call the replacer to\n\t    // obtain a replacement value.\n\t    if (typeof rep === 'function') {\n\t      value = rep.call(holder, key, value);\n\t    }\n\t    \n\t    // What happens next depends on the value's type.\n\t    switch (typeof value === 'undefined' ? 'undefined' : _typeof(value)) {\n\t      case 'string':\n\t        return quote(value);\n\t      case 'number':\n\t        // JSON numbers must be finite. Encode non-finite numbers as null.\n\t        return isFinite(value) ? String(value) : 'null';\n\t      case 'boolean':\n\t      case 'null':\n\t        // If the value is a boolean or null, convert it to a string. Note:\n\t        // typeof null does not produce 'null'. The case is included\n\t        here in\n\t        // the remote chance that this gets fixed someday.\n\t        return String(value);\n\t      case 'object':\n\t        if (!value) return 'null';\n\t        gap += indent;\n\t        partial = [];\n\t        \n\t        // Array.isArray\n\t        if (Object.prototype.toString.apply(value) === '[object Array]') {\n\t          length = value.length;\n\t          for (i = 0; i < length; i += 1) {\n\t            partial[i] = str(i, value) || 'null';\n\t          }\n\t          \n\t          // Join all of the elements together, separated with commas, and\n\t          // wrap them in brackets.\n\t          v = partial.length === 0 ? '[]' : gap ? '[\\n' + gap + partial.join(',\\n' + gap) + '\\n' + mind + ']' : '[' + partial.join(',') + ']';\n\t          gap = mind;\n\t          return v;\n\t        }\n\t        \n\t        // If the replacer is\n\t        // an array, use it to select the members to be\n\t        // stringified.\n\t        if (rep && (typeof rep === 'undefined' ? 'undefined' : _typeof(rep)) === 'object') {\n\t          length = rep.length;\n\t          for (i = 0; i < length; i += 1) {\n\t            k = rep[i];\n\t            if (typeof k === 'string') {\n\t              v = str(k, value);\n\t              if (v) {\n\t                partial.push(quote(k) + (gap ? ': ' : ':') + v);\n\t              }\n\t            }\n\t          }\n\t          \n\t          // Otherwise, iterate through all of the keys in the object.\n\t          for (k in value) {\n\t            if (Object.prototype.hasOwnProperty.call(value, k)) {\n\t              v = str(k, value);\n\t              if (v) {\n\t                partial.push(quote(k) + (gap ? ': ' : ':') + v);\n\t              }\n\t            }\n\t          }\n\t          \n\t          // Join all of the member texts together, separated with commas,\n\t          // and wrap them in braces.\n\t          v = partial.length === 0 ? '{}' : gap ? '{\\n' + gap + partial.join(',\\n' + gap) + '\\n' + mind + '}' : '{' + partial.join(',') + '}';\n\t          gap = mind;\n\t          return v;\n\t        }\n\t        \n\t        module.exports = function
```





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    if (it.schema.$ref && $refKeywords) {\n\t    if (it.opts.extendRefs === 'fail') {\n\t        throw new Error('$ref:
validation keywords used in schema at path \'' + it.errSchemaPath + '\" (see option extendRefs));\n\t    } else if
(it.opts.extendRefs !== true) {\n\t        $refKeywords = false;\n\t        console.warn('$ref: keywords ignored in schema
at path \'' + it.errSchemaPath + '\");\n\t    }\n\t} if ($typeSchema) {\n\t    if (it.opts.coerceTypes) {\n\t        var
$coerceToTypes = it.util.coerceToTypes(it.opts.coerceTypes, $typeSchema);\n\t    }\n\t    var $rulesGroup =
it.RULES.types[$typeSchema];\n\t    if ($coerceToTypes || $typeIsArray || $rulesGroup === true || $rulesGroup &&
!$shouldUseGroup($rulesGroup)) {\n\t        var $schemaPath = it.schemaPath + '.type',\n\t            $errSchemaPath =
it.errSchemaPath + '/type';\n\t        var $schemaPath = it.schemaPath + '.type',\n\t            $errSchemaPath =
it.errSchemaPath + '/type';\n\t        $method = $typeIsArray ? 'checkDataTypes'
: 'checkDataType';\n\t        out += ' if (' + it.util[$method]($typeSchema, $data, true) + ') {';\n\t        if
($coerceToTypes) {\n\t            var $dataType = 'dataType' + $lvl,\n\t                $coerced = 'coerced' + $lvl;\n\t            out +=
' var ' + $dataType + ' = typeof ' + $data + ';';\n\t            if (it.opts.coerceTypes === 'array') {\n\t                out += ' if (' +
$dataType + ' === \\object\\' && Array.isArray(' + $data + ')) ' + $dataType + ' = \\array\\';;\n\t            }\n\t            out +=
' var ' + $coerced + ' = undefined;';\n\t            var $bracesCoercion = ";\n\t            var arr1 = $coerceToTypes;\n\t            if
(arr1) {\n\t                var $type,\n\t                    $i = -1,\n\t                    $l1 = arr1.length - 1;\n\t                while ($i < $l1) {\n\t
$type = arr1[$i += 1];\n\t                    if ($i) {\n\t                        out += ' if (' + $coerced + ' === undefined) {';\n\t
$bracesCoercion += '};\n\t                    }\n\t                    if (it.opts.coerceTypes === 'array' &&
$type !== 'array') {\n\t                        out += ' if (' + $dataType + ' === \\array\\' && ' + $data + '.length === 1) { ' + $coerced
+ ' = ' + $data + ' + ' + $data + '[0]; ' + $dataType + ' = typeof ' + $data + '; }';\n\t                    }\n\t                    if ($type ===
'string') {\n\t                        out += ' if (' + $dataType + ' === \\number\\' || ' + $dataType + ' === \\boolean\\) ' + $coerced +
' = \\\"' + ' + $data + '; else if (' + $data + ' === null) ' + $coerced + ' = \\\"';;\n\t                    } else if ($type === 'number' ||
$type === 'integer') {\n\t                        out += ' if (' + $dataType + ' === \\boolean\\' || ' + $data + ' === null || (' + $dataType
+ ' === \\string\\' && ' + $data + ' && ' + $data + ' === ' + $data + ');;\n\t                    }\n\t                    if ($type === 'integer') {\n\t
out += ' && !( ' + $data + ' % 1);;\n\t                    }\n\t                    out += ') ' + $coerced + ' = ' + $data + ';';\n\t                    }
else if ($type === 'boolean') {\n\t                        out += ' if (' +
$data + ' === \\false\\' || ' + $data + ' === 0 || ' + $data + ' === null) ' + $coerced + ' = false; else if (' + $data + ' ===
\\true\\' || ' + $data + ' === 1) ' + $coerced + ' = true;';\n\t                    } else if ($type === 'null') {\n\t                        out += ' if ('
+ $data + ' === \\\"' || ' + $data + ' === 0 || ' + $data + ' === false) ' + $coerced + ' = null;';\n\t                    } else if
(it.opts.coerceTypes === 'array' && $type === 'array') {\n\t                        out += ' if (' + $dataType + ' === \\string\\' || ' +
$dataType + ' === \\number\\' || ' + $dataType + ' === \\boolean\\' || ' + $data + ' === null) ' + $coerced + ' = [' + $data +
'];';\n\t                    }\n\t                    }\n\t                    }\n\t                    out += ' ' + $bracesCoercion + ' if (' + $coerced + ' === undefined) {
';\n\t                    var $$outStack = $$outStack || [];\n\t                    $$outStack.push(out);\n\t                    out = "/* istanbul ignore else
*/\n\t                    if (it.createErrors !== false) {\n\t                        out += ' { keyword: \'' + ($errorKeyword
|| 'type') + '\', dataPath: (dataPath || \\\"\\) + ' + it.errorPath + ', schemaPath: ' +
it.util.toQuotedString($errSchemaPath) + ', params: { type: \'';\n\t                        if ($typeIsArray) {\n\t                            out += " +
$typeSchema.join(",");\n\t                        } else {\n\t                            out += " + $typeSchema;\n\t                        }\n\t                        out += '\', message: \\should be ';\n\t                        if ($typeIsArray) {\n\t
out += " + $typeSchema.join(",");\n\t                        } else {\n\t                            out += " + $typeSchema;\n\t                        }\n\t
out += '\';\n\t                        }\n\t                        if (it.opts.verbose) {\n\t                            out += ', schema: validate.schema' + $schemaPath +
', parentSchema: validate.schema' + it.schemaPath + ', data: ' + $data + ';\n\t                        }\n\t                        out += ' }';\n\t                    }
else {\n\t                        out += ' }';\n\t                    }\n\t                    var __err = out;\n\t                    out = $$outStack.pop();\n\t                    if (!it.compositeRule && $breakOnError) {\n\t                        /* istanbul ignore if */\n\t                        if (it.async) {\n\t                            out += ' throw new ValidationError([' + __err + ']);;\n\t                        } else {\n\t                            out += '
validate.errors = [' + __err + ']; return false;';\n\t                        }\n\t                    } else {\n\t                        out += ' var err = ' + __err + '; if
(vErrors === null) vErrors = [err]; else vErrors.push(err); errors++;;\n\t                    }\n\t                    out += ' } else {';\n\t                    var
$parentData = $dataLvl ? 'data' + ($dataLvl - 1 || '') : 'parentData',\n\t                        $parentDataProperty = $dataLvl ?
it.dataPathArr[$dataLvl] : 'parentDataProperty';\n\t                    out += ' ' + $data + ' = ' + $coerced + ';;\n\t                    if
(!$dataLvl) {\n\t                        out += ' if (' + $parentData + ' !== undefined);;\n\t                    }\n\t                    out += ' ' + $parentData + '[' +

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$parentDataProperty + ']' + $coerced + ' }';\n\t    } else {\n\t        var $$outStack
= $$outStack || [];\n\t        $$outStack.push(out);\n\t        out = "/* istanbul ignore else */\n\t        if (it.createErrors
!==(false)) {\n\t            out += ' { keyword: \'' + ($errorKeyword || 'type') + '\', dataPath: (dataPath || '\') + ' +
it.errorPath + ', schemaPath: ' + it.util.toQuotedString($errSchemaPath) + ', params: { type: \'';\n\t            if
($typeIsArray) {\n\t                out += " + $typeSchema.join(",");\n\t            } else {\n\t                out += " +
$typeSchema;\n\t            }\n\t            out += '\' }';\n\t            if (it.opts.messages !== false) {\n\t                out += ',
message: \''should be';\n\t                if ($typeIsArray) {\n\t                    out += " + $typeSchema.join(",");\n\t                } else
{\n\t                    out += " + $typeSchema;\n\t                }\n\t                out += '\'';\n\t            }\n\t            if (it.opts.verbose) {\n\t
out += ', schema: validate.schema' + $schemaPath + ', parentSchema: validate.schema'
+ it.schemaPath + ', data: ' + $data + '';\n\t            }\n\t            out += ' }';\n\t            } else {\n\t                out += ' { }';\n\t
}\n\t            var __err = out;\n\t            out = $$outStack.pop();\n\t            if (!it.compositeRule && $breakOnError) {\n\t
/* istanbul ignore if */\n\t                if (it.async) {\n\t                    out += ' throw new ValidationError([' + __err + ']);';\n\t
}\n\t                } else {\n\t                    out += ' validate.errors = [' + __err + ']; return false;';\n\t                }\n\t            } else {\n\t
out += ' var err = ' + __err + ';\n\t            if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++;';\n\t            }\n\t
}\n\t            out += ' }';\n\t            }\n\t            }\n\t            if (it.schema.$ref && !$refKeywords) {\n\t                out += ' +
it.RULES.all.$ref.code(it, '$ref') + '';\n\t                if ($breakOnError) {\n\t                    out += ' } if (errors === '\n\t                if ($stop) {\n\t
out += '0';\n\t                } else {\n\t                    out += 'errs_' + $lvl;\n\t                }\n\t            }\n\t            out += ' ) {';\n\t            $closingBraces2 += '};\n\t            }\n\t            } else {\n\t                if (it.opts.v5 &&
it.schema.patternGroups) {\n\t                console.warn('keyword \"patternGroups\" is deprecated and disabled. Use option
patternGroups: true to enable.);\n\t            }\n\t            var arr2 = it.RULES;\n\t            if (arr2) {\n\t                var $rulesGroup,\n\t                i2
= -1,\n\t                l2 = arr2.length - 1;\n\t                while (i2 < l2) {\n\t                    $rulesGroup = arr2[i2 += 1];\n\t                    if
($shouldUseGroup($rulesGroup)) {\n\t                        if ($rulesGroup.type) {\n\t                            out += ' if (' +
it.util.checkDataType($rulesGroup.type, $data) + ') {';\n\t                            }\n\t                            if (it.opts.useDefaults &&
!it.compositeRule) {\n\t                                if ($rulesGroup.type === 'object' && it.schema.properties) {\n\t                                    var $schema
= it.schema.properties,\n\t                                    $schemaKeys = Object.keys($schema);\n\t                                    var arr3 =
$schemaKeys;\n\t                                    if (arr3) {\n\t                                        var $propertyKey,\n\t                                        i3 = -1,\n\t                                        l3 = arr3.length - 1;\n\t                                        while (i3 < l3) {\n\t                                            $propertyKey =
arr3[i3 += 1];\n\t                                            var $sch = $schema[$propertyKey];\n\t                                            if ($sch.default !== undefined) {\n\t
var $passData = $data + it.util.getProperty($propertyKey);\n\t                                            out += ' if (' + $passData +
' === undefined) + $passData + ' = ';\n\t                                            if (it.opts.useDefaults === 'shared') {\n\t                                                out += ' ' +
it.useDefault($sch.default) + '';\n\t                                            } else {\n\t                                                out += ' ' + JSON.stringify($sch.default) +
';\n\t                                            }\n\t                                            }\n\t                                            out += ';';\n\t                                            }\n\t                                            }\n\t                                            } else if
($rulesGroup.type === 'array' && Array.isArray(it.schema.items)) {\n\t                                                var arr4 = it.schema.items;\n\t                                                if (arr4) {\n\t
var $sch,\n\t                                                $i = -1,\n\t                                                l4 = arr4.length - 1;\n\t                                                while ($i < l4) {\n\t
$sch = arr4[$i += 1];\n\t                                                if ($sch.default !== undefined) {\n\t                                                    var $passData = $data + '[' + $i
+ '];\n\t                                                    out += ' if (' + $passData + ' === undefined) + $passData + ' = ';\n\t                                                    if
(it.opts.useDefaults === 'shared') {\n\t                                                        out += ' ' + it.useDefault($sch.default) + '';\n\t                                                    } else
{\n\t                                                        out += ' ' + JSON.stringify($sch.default) + '';\n\t                                                    }\n\t                                                    out += ';';\n\t
}\n\t                                                    }\n\t                                                    }\n\t                                                    }\n\t                                                    }\n\t                                                    var arr5 = $rulesGroup.rules;\n\t                                                    if (arr5) {\n\t
var $rule,\n\t                                                    i5 = -1,\n\t                                                    l5 = arr5.length - 1;\n\t                                                    while (i5 < l5) {\n\t
$rule = arr5[i5 += 1];\n\t                                                    if ($shouldUseRule($rule)) {\n\t                                                        var $code = $rule.code(it, $rule.keyword,
$rulesGroup.type);\n\t                                                        if ($code) {\n\t                                                            out += ' ' + $code + '';\n\t                                                            if ($breakOnError)
{\n\t                                                                $closingBraces1 += '};\n\t                                                            }\n\t                                                            }\n\t                                                            }\n\t
}\n\t                                                        if ($breakOnError) {\n\t                                                            out += ' ' + $closingBraces1 + '';\n\t                                                            $closingBraces1 = ";\n\t
}\n\t                                                        }\n\t                                                        if ($rulesGroup.type) {\n\t                                                            out += ' }';\n\t                                                        }\n\t                                                        if ($typeSchema && $typeSchema === $rulesGroup.type
&& !$coerceToTypes) {\n\t                                                            out += ' else {';\n\t                                                            var $schemaPath = it.schemaPath + '.type',\n\t                                                            $errSchemaPath = it.errSchemaPath + '/type';\n\t                                                            var $$outStack = $$outStack || [];\n\t

```



```
* @return {Promise}\n * @api private\n * function next(ret) {\n   if (ret.done) return\n   resolve(ret.value);\n   var value = toPromise.call(ctx, ret.value);\n   if (value && isPromise(value)) return\n   value.then(onFulfilled, onRejected);\n   return onRejected(new TypeError('You may only yield a function,\n   promise, generator, array, or object, ' +\n   'but the following object was passed: \'' +\n   String(ret.value) + '\')));\n }\n};\n\n/**\n * Convert a `yield`ed value into a promise.\n * @param {Mixed} obj\n * @return {Promise}\n * @api private\n * function toPromise(obj) {\n   if (!obj) return obj;\n   if (isPromise(obj)) return obj;\n   if (isGeneratorFunction(obj) || isGenerator(obj)) return co.call(this, obj);\n   if ('function' === typeof obj) return thunkToPromise.call(this, obj);\n   if (Array.isArray(obj)) return\n   arrayToPromise.call(this, obj);\n   if (isObject(obj)) return objectToPromise.call(this, obj);\n   return\n   obj;\n }\n\n/**\n * Convert a thunk to a promise.\n * @param {Function}\n * @return {Promise}\n * @api private\n * function thunkToPromise(fn) {\n   var ctx = this;\n   return new Promise(function\n   (resolve, reject) {\n     fn.call(ctx, function (err, res) {\n       if (err) return reject(err);\n       if (arguments.length >\n       2) res = slice.call(arguments, 1);\n       resolve(res);\n     });\n   });\n }\n\n * Convert an array of `yieldables` to a promise.\n * Uses `Promise.all()` internally.\n * @param {Array}\n * obj\n * @return {Promise}\n * @api private\n * function arrayToPromise(obj) {\n   return\n   Promise.all(obj.map(toPromise, this));\n }\n\n/**\n * Convert an object of `yieldables` to a promise.\n * Uses `Promise.all()` internally.\n * @param {Object} obj\n * @return {Promise}\n * @api private\n * function objectToPromise(obj) {\n   var results = new obj.constructor();\n   var keys =\n   Object.keys(obj);\n   var promises = [];\n   for (var i = 0; i < keys.length; i++) {\n     var key = keys[i];\n     var\n     promise = toPromise.call(this, obj[key]);\n     if (promise && isPromise(promise))\n     defer(promise, key); else\n     results[key] = obj[key];\n   }\n   return Promise.all(promises).then(function () {\n     return results;\n   });\n }\n\nfunction defer(promise, key) {\n   // predefine the key in the result\n   results[key] = undefined;\n   promises.push(promise.then(function (res) {\n     results[key] = res;\n   }));\n }\n\n/**\n * Check if `obj` is a promise.\n * @param {Object} obj\n * @return {Boolean}\n * @api private\n * function isPromise(obj) {\n   return 'function' === typeof obj.then;\n }\n\n/**\n * Check if `obj` is a generator.\n * @param {Mixed} obj\n * @return {Boolean}\n * @api private\n * function isGenerator(obj) {\n   return 'function' === typeof obj.next &&\n   'function' === typeof\n   obj.throw;\n }\n\n/**\n * Check if `obj` is a generator function.\n * @param {Mixed} obj\n * @return\n   {Boolean}\n * @api private\n * function isGeneratorFunction(obj) {\n   var constructor = obj.constructor;\n   if (!constructor) return false;\n   if ('GeneratorFunction' ===\n   constructor.name || 'GeneratorFunction' ===\n   constructor.displayName) return true;\n   return isGenerator(constructor.prototype);\n }\n\n/**\n * Check for plain object.\n * @param {Mixed} val\n * @return {Boolean}\n * @api private\n * function isObject(val) {\n   return Object === val.constructor;\n }\n\n\n\nfunction(module, exports) {\n  'use strict';\n  var Cache = module.exports = function Cache() {\n    this._cache\n    = {};\n    this._cache.prototype.put = function Cache_put(key, value) {\n      this._cache[key] =\n      value;\n    }; \n    this._cache.prototype.get = function Cache_get(key) {\n      return\n      this._cache[key];\n    }; \n    this._cache.prototype.del = function Cache_del(key) {\n      delete\n      this._cache[key];\n    }; \n    this._cache.prototype.clear = function Cache_clear() {\n      this._cache = {};\n    }; \n  },\n  38\n  function(module, exports, __webpack_require__) {\n    'use strict';\n    var util =\n    __webpack_require__(26);\n    var DATE = /^(\\d{4}\\d{2}\\d{2})-(\\d{2})-(\\d{2})$/;\n    var DAYS = [0, 31, 29, 31, 30, 31,\n    30, 31, 30, 31, 30, 31];\n    var\n    TIME = /^(\\d{4})-(\\d{2})-(\\d{2})(\\d{2}:\\d{2}:\\d{2})?$/i;\n    var HOSTNAME = /^[a-z0-9]?(?:[a-z0-9-]\n    ]{0,61}[a-z0-9])?(?:\\.([a-z0-9]?(?:[-0-9a-z]{0,61}[0-9a-z])?\n    )?$/i;\n    var URI = /^(?:[a-z][a-z0-9+\\-]\n    .*)?(?:\\/\\/?(?:([a-z0-9\\-\\.~!$&'()*+,;=:]%[0-9a-f]{2})*\n    @)?(?:\\[(?:([a-z0-9-]{1,4}){6}::(?:[0-9a-f]{1,4}){5}\n    )|(?:[0-9a-f]{1,4})?::(?:[0-9a-f]{1,4}){4}\n    )|(?:[0-9a-f]{1,4}){0,1}[0-9a-f]{1,4})?::(?:[0-9a-f]{1,4}){3}\n    |(?:[0-9a-f]{1,4}){0,2}[0-9a-f]{1,4})?::(?:[0-9a-f]{1,4}){2}\n    |(?:[0-9a-f]{1,4}){0,3}[0-9a-f]{1,4})?::[0-9a-f]{1,4}:(?:[0-9a-f]{1,4}\n    :){0,4}[0-9a-f]{1,4})?::(?:[0-9a-f]{1,4}:[0-9a-f]{1,4}){2}\n    |2[0-4]\\d|[01]?\\d{2}\\d{3}\n    }(?:25[0-5]|2[0-4]\\d|[01]?\\d{2})?(?:[0-9a-f]{1,4}){0,5}\n    [0-9a-f]{1,4})?::[0-9a-
```

```
f]{1,4}|(?:[:0-9a-f]{1,4}:){0,6}[0-9a-f]{1,4}?:|[Vv][0-9a-f]+\.[a-z0-9\-.~!$&'()*+,-;=:]+)\\|(?:[:25[0-5]]2[0-4]
\|d[01]?\\d\\d?)\\.){3}(?:25[0-5]2[0-4]\|d[01]?\\d\\d?)(?:[a-z0-9\-.~!$&'()*+,-;=:]|% [0-9a-
f]{2})*)(?:\\d*?(\(?:[a-z0-9\-.~!$&'()*+,-;=:]|% [0-9a-f]{2})*)*\\|(\(?:[a-z0-9\-.~!$&'()*+,-;=:]|% [0-9a-
f]{2})+(\?:\\(\(?:[a-z0-9\-.~!$&'()*+,-;=:]|% [0-9a-f]{2})*)*)(\?:[a-z0-9\-.~!$&'()*+,-;=:]|% [0-9a-
f]{2})+)(?:\\(\(?:[a-z0-9\-.~!$&'()*+,-;=:]|% [0-9a-f]{2})*)*)(\?:[a-z0-9\-.~!$&'()*+,-;=:]|% [0-9a-
f]{2})*)?#(?:[a-z0-9\-.~!$&'()*+,-;=:]|% [0-9a-f]{2})*)?$/i;\n\tvar
URIREF = /^(?:[a-z][a-z0-9+\\-]*)(?:\\|(\(?:[a-z0-9\-.~!$&'()*+,-;=:]|% [0-9a-f]{2})*@)(?:\\|(\(?:[:0-9a-f]{1,4}:){6}::
(?:[:0-9a-f]{1,4}:){5}|(?:[:0-9a-f]{1,4})?:|(?:[:0-9a-f]{1,4}:){4}|(?:[:0-9a-f]{1,4}:){0,1}[0-9a-
f]{1,4})?:|(?:[:0-9a-f]{1,4}:){3}|(?:[:0-9a-f]{1,4}:){0,2}[0-9a-f]{1,4})?:|(?:[:0-9a-f]{1,4}:){2}|(?:[:0-9a-
f]{1,4}:){0,3}[0-9a-f]{1,4})?:[0-9a-f]{1,4}|(?:[:0-9a-f]{1,4}:){0,4}[0-9a-f]{1,4})?:|(?:[:0-9a-f]{1,4}:)[0-9a-
f]{1,4}|(?:[:25[0-5]]2[0-4]\|d[01]?\\d\\d?)\\.){3}(?:25[0-5]2[0-4]\|d[01]?\\d\\d?)(?:[a-z0-9\-.
_~!$&'()*+,-;=:]+)\\|(?:[:25[0-5]]2[0-4]\|d[01]?\\d\\d?)\\.){3}(?:25[0-5]2[0-4]\|d[01]?\\d\\d?)(?:[a-z0-9\-.
_~!$&'()*+,-;=:]|% [0-9a-f]{2})*)(?:\\d*?(\(?:[a-z0-9\-.~!$&'()*+,-;=:]|% [0-9a-f]{2})*)*\\|(\(?:[a-z0-9\-.
_~!$&'()*+,-;=:]|% [0-9a-f]{2})+(\?:\\(\(?:[a-z0-9\-.~!$&'()*+,-;=:]|% [0-9a-f]{2})*)*)(\?:[a-z0-9\-.
_~!$&'()*+,-;=:]|% [0-9a-f]{2})+)(?:\\(\(?:[a-z0-9\-.~!$&'()*+,-;=:]|% [0-9a-f]{2})*)*)(\?:[a-z0-9\-.
_~!$&'()*+,-;=:]|% [0-9a-f]{2})*)?#(?:[a-z0-9\-.~!$&'()*+,-;=:]|% [0-9a-f]{2})*)?$/i;\n\t/
uri-template: https://tools.ietf.org/html/rfc6570\n\tvar URITEMPLATE = /^(?:(?:^\x00-\x20''<>%\\\"'^{}])% [0-
9a-f]{2})|#[+!@?,:;=&@|](?:[a-z0-9_] |% [0-9a-f]{2})+(?:[-1-9][0-9]{0,3}|\\*)?(?:[a-z0-9_] |% [0-9a-
f]{2})+(?:[-1-9][0-9]{0,3}|\\*)?)*$/i;\n\t/ For the source: https://gist.github.com/dperini/729294\n\t/ For test
cases: https://mathiasbynens.be/demo/url-regex\n\t/
```

@todo Delete current URL in favour of the commented out URL rule when this issue is fixed

```
https://github.com/eslint/eslint/issues/7983.\n\tvar URL =
/^(?:(?:https?|ftp):\\|\\|)(?:S+(?:[S*]?)@)(?:(!10(?:\\.\\d{1,3}){3})?(?!127(?:\\.\\d{1,3}){3})?(?!169\\.|254(?:\\.\\d{1,
3}){2})?(?!192\\.|168(?:\\.\\d{1,3}){2})?(?!172\\.?(?![6-9])2\\|d3[0-1])?(?:\\.\\d{1,3}){2})?(?:[1-
9]\\|d?1\\|d\\|d2[01]\\|d22[0-3])(?:\\.(?!1?\\|d{1,2}|2[0-4]\\|d25[0-5])){2}(?:\\.(?:[1-9]\\|d?1\\|d\\|d2[0-4]\\|d25[0-
4]))(?:[a-z\\u{00a1}-\\u{ffff}0-9]+-?)*[a-z\\u{00a1}-\\u{ffff}0-9]+)(?:\\.(?:[a-z\\u{00a1}-\\u{ffff}0-9]+-?)*[a-
z\\u{00a1}-\\u{ffff}0-9]+)*?(?:[a-z\\u{00a1}-\\u{ffff}]2,)))(?:\\|d{2,5})?(?:\\|^\[s*]?)$/i;\n\tvar URL =
/^(?:(?:http[s\u017F]?|ftp):\\|\\|)(?:(?:[0-\x08\x0E-\x1F!-\x9F\xA1-\u167F\u1681-\u1FFF\u200B-
\u2027\u202A-\u202E\u2030-\u205E\u2060-\u2FFF\u3001-\uD7FF\uE000-\uFEFE\uFF00-
\uFFFF])|[\uD800-\uDBFF][\uDC00-\uDFFF]|[\uD800-\uDBFF](?![\uDC00-\uDFFF])|(?:^\uD800-
\uDBFF)^)|[\uDC00-\uDFFF])+(:(?:[0-\x08\x0E-\x1F!-\x9F\xA1-\u167F\u1681-\u1FFF\u200B-
\u2027\u202A-\u202E\u2030-\u205E\u2060-\u2FFF\u3001-\uD7FF\uE000-\uFEFE\uFF00-
\uFFFF]|[\uD800-\uDBFF][\uDC00-\uDFFF]|[\uD800-\uDBFF](?![\uDC00-\uDFFF])|(?:^\uD800-
\uDBFF)^)|[\uDC00-\uDFFF])*?)@?(?!10(?:[.0-9]{1,3}){3})?(?!127(?:[.0-9]{1,3}){3})?(?!169\|.254(?:[.0-
9]{1,3}){2})?(?!192\|.168(?:[.0-9]{1,3}){2})?(?!172\|.?(?![6-9])2[0-9]3[01])?(?:[.0-9]{1,3}){2})?(?:[1-9][0-9]?[1[0-
9][0-9]2[01][0-9]22[0-3])(?:\.(?!1?0-9]{1,2}|2[0-4][0-9]|25[0-5])){2}(?:\.(?:[1-9][0-9]?[1[0-9][0-9]2[0-4][0-
9]|25[0-4]))(?:[a-z0-9Ksa-z\uA1-\uD7FF\uE000-\uFFFF])|[\uD800-\uDBFF](?![\uDC00-
\uDFFF])|(?:^\uD800-\uDBFF)^)|[\uDC00-\uDFFF])+-(?:(?:[0-9Ksa-z\uA1-\uD7FF\uE000-
\uFFFF]|[\uD800-\uDBFF](?![\uDC00-\uDFFF])|(?:^\uD800-\uDBFF)^)|[\uDC00-\uDFFF]))(?:[a-z0-9Ksa-z\uA1-\u
D7FF\uE000-\uFFFF]|[\uD800-\uDBFF](?![\uDC00-\uDFFF])|(?:^\uD800-\uDBFF)^)|[\uDC00-\uDFFF]))+*?(?:[0-9Ksa-z\uA1-
\uD7FF\uE000-\uFFFF]|[\uD800-\uDBFF](?![\uDC00-\uDFFF])|(?:^\uD800-\uDBFF)^)|[\uDC00-\uDFFF]))+*(?:\.(?:[a-z0-9Ksa-z\uA1-
\uD7FF\uE000-\uFFFF]|[\uD800-\uDBFF](?![\uDC00-\uDFFF])|(?:^\uD800-\uDBFF)^)|[\uDC00-\uDFFF])){2,})))(?:[0-9]{2,5})?(?:\\|(\(?:[0-\x08\x0E-\x1F!-\x9F\xA1-\u167F\u1681-\u1FFF\u200B-
\u2027\u202A-\u202E\u2030-\u205E\u2060-\u2FFF\u3001-\uD7FF\uE000-\uFEFE\uFF00-
\uFFFF]|[\uD800-\uDBFF][\uDC00-\uDFFF]|[\uD800-\uDBFF](?![\uDC00-\uDFFF])|(?:^\uD800-
\uDBFF)^)|[\uDC00-\uDFFF])*)?$/i;\n\tvar
```



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9]?\d){3})|:|)))(?:%+)?\s*/i,\n\t
  regex: regex,\n\t uuid: UUID,\n\t 'json-pointer': JSON_POINTER,\n\t 'relative-json-pointer':
RELATIVE_JSON_POINTER\n\t};\n\t\n\tfunction date(str) {\n\t // full-date from
http://tools.ietf.org/html/rfc3339#section-5.6\n\t
  var matches = str.match(DATE);\n\t if (!matches) return false;\n\t\n\t var month = +matches[1];\n\t var day =
+matches[2];\n\t return month >= 1 && month <= 12 && day >= 1 && day <= DAYS[month];\n\t}\n\t\n\tfunction
time(str, full) {\n\t var matches = str.match(TIME);\n\t if (!matches) return false;\n\t\n\t var hour = matches[1];\n\t
var minute = matches[2];\n\t var second = matches[3];\n\t var timeZone = matches[5];\n\t return hour <= 23 &&
minute <= 59 && second <= 59 && (!full || timeZone);\n\t}\n\t\n\tvar DATE_TIME_SEPARATOR =
/t\\s/i;\n\tfunction date_time(str) {\n\t // http://tools.ietf.org/html/rfc3339#section-5.6\n\t var dateTime =
str.split(DATE_TIME_SEPARATOR);\n\t return dateTime.length == 2 && date(dateTime[0]) &&
time(dateTime[1], true);\n\t}\n\t\n\tfunction hostname(str) {\n\t // https://tools.ietf.org/html/rfc1034#section-3.5\n\t
// https://tools.ietf.org/html/rfc1123#section-2\n\t return str.length <= 255
&& HOSTNAME.test(str);\n\t}\n\t\n\tvar NOT_URI_FRAGMENT = /\\/:/;\n\tfunction uri(str) {\n\t //
http://jmrware.com/articles/2009/uri_regexp/URI_regex.html + optional protocol + required \"\\.\"'\n\t return
NOT_URI_FRAGMENT.test(str) && URI.test(str);\n\t}\n\t\n\tvar Z_ANCHOR = /^[^\\\\\\|\\|\\Z/];\n\tfunction
regex(str) {\n\t if (Z_ANCHOR.test(str)) return false;\n\t try {\n\t new RegExp(str);\n\t return true;\n\t } catch
(e) {\n\t return false;\n\t }\n\t}\n\t\n\t/**/ },\n\t/* 39 */\n\t*/\n\tfunction(module, exports, __webpack_require__)
{\n\t\n\t'use strict';\n\t\n\tvar _typeof = typeof Symbol === \"function\" && typeof Symbol.iterator === \"symbol\" ?
function (obj) { return typeof obj; } : function (obj) { return obj && typeof Symbol === \"function\" &&
obj.constructor === Symbol && obj !== Symbol.prototype ? \"symbol\" : typeof obj; };
\n\t\n\tvar ruleModules =
__webpack_require__(40),\n\t toHash = __webpack_require__(26).toHash;\n\t\n\tmodule.exports = function
rules() {\n\t var
RULES = [{ type: 'number',\n\t rules: [{ 'maximum': ['exclusiveMaximum'] }, { 'minimum': ['exclusiveMinimum']
}, { 'multipleOf', 'format' } ], type: 'string',\n\t rules: ['maxLength', 'minLength', 'pattern', 'format' ] }, { type:
'array',\n\t rules: ['maxItems', 'minItems', 'uniqueItems', 'contains', 'items' ] }, { type: 'object',\n\t rules:
['maxProperties', 'minProperties', 'required', 'dependencies', 'propertyNames', { 'properties': ['additionalProperties',
'patternProperties'] } ] }, { rules: ['$ref', 'const', 'enum', 'not', 'anyOf', 'oneOf', 'allOf' ] }];\n\t\n\t var ALL =
[type'];\n\t var KEYWORDS = ['additionalItems', '$schema', 'id', 'title', 'description', 'default', 'definitions'];\n\t var
TYPES = ['number', 'integer', 'string', 'array', 'object', 'boolean', 'null'];\n\t RULES.all = toHash(ALL);\n\t
RULES.types = toHash(TYPES);\n\t\n\t RULES.forEach(function (group) {\n\t group.rules =
group.rules.map(function (keyword) {\n\t var implKeywords;\n\t
if ((typeof keyword === 'undefined' ? 'undefined' : _typeof(keyword)) === 'object') {\n\t var key =
Object.keys(keyword)[0];\n\t implKeywords = keyword[key];\n\t keyword = key;\n\t
implKeywords.forEach(function (k) {\n\t ALL.push(k);\n\t RULES.all[k] = true;\n\t });\n\t })\n\t ALL.push(keyword);\n\t var rule = RULES.all[keyword] = {\n\t keyword: keyword,\n\t code:
ruleModules[keyword],\n\t implements: implKeywords\n\t });\n\t return rule;\n\t });\n\t\n\t if
(group.type) RULES.types[group.type] = group;\n\t });\n\t\n\t RULES.keywords =
toHash(ALL.concat(KEYWORDS));\n\t RULES.custom = { };
\n\t\n\t return RULES;\n\t};\n\t\n\t/**/ },\n\t/* 40
*/\n\t*/\n\tfunction(module, exports, __webpack_require__) {\n\t\n\t'use strict';\n\t\n\t//all requires must be explicit
because browserify won't work with dynamic requires\n\t\n\tmodule.exports = {\n\t '$ref':
__webpack_require__(41),\n\t allOf: __webpack_require__(42),\n\t
anyOf: __webpack_require__(43),\n\t const: __webpack_require__(44),\n\t contains:
__webpack_require__(45),\n\t dependencies: __webpack_require__(46),\n\t 'enum': __webpack_require__(47),\n\t
format: __webpack_require__(48),\n\t items: __webpack_require__(49),\n\t maximum:
__webpack_require__(50),\n\t minimum: __webpack_require__(50),\n\t maxItems: __webpack_require__(51),\n\t
minItems: __webpack_require__(51),\n\t maxLength: __webpack_require__(52),\n\t minLength:
__webpack_require__(52),\n\t maxProperties: __webpack_require__(53),\n\t minProperties:

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__webpack_require__(53),\n\t multipleOf: __webpack_require__(54),\n\t not: __webpack_require__(55),\n\t
oneOf: __webpack_require__(56),\n\t pattern: __webpack_require__(57),\n\t properties:
__webpack_require__(58),\n\t propertyName: __webpack_require__(59),\n\t required:
__webpack_require__(60),\n\t uniqueItems: __webpack_require__(61),\n\t validate:
__webpack_require__(35)\n\t};\n\n/***/ },\n\n/*
41 */\n\n/***/ function(module, exports) {\n\n\t'use strict';\n\n\tmodule.exports = function generate_ref(it,
$keyword, $ruleType) {\n\n\t\tvar out = '';\n\n\t\tvar $lvl = it.level;\n\n\t\tvar $dataLvl = it.dataLevel;\n\n\t\tvar $schema =
it.schema[$keyword];\n\n\t\tvar $errSchemaPath = it.errSchemaPath + '/' + $keyword;\n\n\t\tvar $breakOnError =
!it.opts.allErrors;\n\n\t\tvar $data = 'data' + ($dataLvl || '');\n\n\t\tvar $valid = 'valid' + $lvl;\n\n\t\tvar $async, $refCode;\n\n\t\tif ($schema === '#' || $schema === '#/') {\n\n\t\t\tif (it.isRoot) {\n\n\t\t\t\t$async = it.async;\n\n\t\t\t\t$refCode = 'validate';\n\n\t\t\t} else {\n\n\t\t\t\t$async = it.root.schema.$async === true;\n\n\t\t\t\t$refCode = 'root.refVal[0]';\n\n\t\t\t}\n\n\t\t} else {\n\n\t\t\tvar $refVal = it.resolveRef(it.baseId, $schema, it.isRoot);\n\n\t\t\tif ($refVal === undefined) {\n\n\t\t\t\tvar $message =
it.MissingRefError.message(it.baseId, $schema);\n\n\t\t\t\tif (it.opts.missingRefs === 'fail') {\n\n\t\t\t\t\tconsole.error($message);\n\n\t\t\t\t\tvar $$outStack
= $$outStack || [];\n\n\t\t\t\t\t$$outStack.push(out);\n\n\t\t\t\t\tout = '/* istanbul ignore else */\n\t\t\t\t\tif (it.createErrors
!== false) {\n\n\t\t\t\t\t\tout += ' keyword: \'' + $keyword + '\\', dataPath: (dataPath || '\\') + ' + it.errorPath + ',
schemaPath: ' + it.util.toQuotedString($errSchemaPath) + ', params: { ref: \'' + it.util.escapeQuotes($schema) + '\\
}';\n\n\t\t\t\t\t\tif (it.opts.messages !== false) {\n\n\t\t\t\t\t\t\tout += ', message: \'' + 'can\\'\\'\\'\\'t resolve reference ' +
it.util.escapeQuotes($schema) + '\\';\n\n\t\t\t\t\t\t}\n\n\t\t\t\t\t\tif (it.opts.verbose) {\n\n\t\t\t\t\t\t\tout += ', schema: ' +
it.util.toQuotedString($schema) + ', parentSchema: validate.schema' + it.schemaPath + ', data: ' + $data + ';\n\n\t\t\t\t\t\t}\n\n\t\t\t\t\t\tout += ' }';\n\n\t\t\t\t\t\t} else {\n\n\t\t\t\t\t\t\tout += ' }';\n\n\t\t\t\t\t\t}\n\n\t\t\t\t\t\tvar __err = out;\n\n\t\t\t\t\t\tout =
$$outStack.pop();\n\n\t\t\t\t\t\tif (!it.compositeRule && $breakOnError) {\n\n\t\t\t\t\t\t\t/* istanbul ignore
if */\n\n\t\t\t\t\t\t\tif (it.async) {\n\n\t\t\t\t\t\t\t\tout += ' throw new ValidationError([' + __err + ']);\n\n\t\t\t\t\t\t\t} else {\n\n\t\t\t\t\t\t\t\tout += ' validate.errors = [' + __err + ']; return false;\n\n\t\t\t\t\t\t\t} } else {\n\n\t\t\t\t\t\t\t\tout += ' var err = ' +
__err + ';\n\n\t\t\t\t\t\t\t\tif (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++;\n\n\t\t\t\t\t\t\t}\n\n\t\t\t\t\t\t\tif
($breakOnError) {\n\n\t\t\t\t\t\t\t\tout += ' if (false) {';\n\n\t\t\t\t\t\t\t\t}\n\n\t\t\t\t\t\t\t\t} else if (it.opts.missingRefs === 'ignore') {\n\n\t\t\t\t\t\t\t\tconsole.warn($message);\n\n\t\t\t\t\t\t\t\tif ($breakOnError) {\n\n\t\t\t\t\t\t\t\t\tout += ' if (true) {';\n\n\t\t\t\t\t\t\t\t\t}\n\n\t\t\t\t\t\t\t\t} else {\n\n\t\t\t\t\t\t\t\t\tthrow new it.MissingRefError(it.baseId, $schema, $message);\n\n\t\t\t\t\t\t\t\t}\n\n\t\t\t\t\t\t\t\t} else if ($refVal.inline) {\n\n\t\t\t\t\t\t\t\t\tvar $it
= it.util.copy(it);\n\n\t\t\t\t\t\t\t\t\t$it.level++;\n\n\t\t\t\t\t\t\t\t\tvar $nextValid = 'valid' + $it.level;\n\n\t\t\t\t\t\t\t\t\t$it.schema =
$refVal.schema;\n\n\t\t\t\t\t\t\t\t\t$it.schemaPath = '';\n\n\t\t\t\t\t\t\t\t\t$it.errSchemaPath = $schema;\n\n\t\t\t\t\t\t\t\t\tvar $code =
it.validate($it).replace(/validate\\\.schema/g, $refVal.code);\n\n\t\t\t\t\t\t\t\t\tout += ' ' + $code + ';\n\n\t\t\t\t\t\t\t\t\tif ($breakOnError)
{\n\n\t\t\t\t\t\t\t\t\t\tout += ' if (' + $nextValid + ') {';\n\n\t\t\t\t\t\t\t\t\t\t}\n\n\t\t\t\t\t\t\t\t\t} else {\n\n\t\t\t\t\t\t\t\t\t\t$async = $refVal.$async === true;\n\n\t\t\t\t\t\t\t\t\t\t$refCode = $refVal.code;\n\n\t\t\t\t\t\t\t\t\t\t}\n\n\t\t\t\t\t\t\t\t\t}\n\n\t\t\t\t\t\t\t\t\tif ($refCode) {\n\n\t\t\t\t\t\t\t\t\t\tvar $$outStack = $$outStack || [];\n\n\t\t\t\t\t\t\t\t\t\t$$outStack.push(out);\n\n\t\t\t\t\t\t\t\t\t\tout = '';\n\n\t\t\t\t\t\t\t\t\t\tif (it.opts.passContext) {\n\n\t\t\t\t\t\t\t\t\t\t\tout += ' ' + $refCode + '.call(this, ';\n\n\t\t\t\t\t\t\t\t\t\t}
else {\n\n\t\t\t\t\t\t\t\t\t\t\tout += ' ' + $refCode + '(';\n\n\t\t\t\t\t\t\t\t\t\t\t}\n\n\t\t\t\t\t\t\t\t\t\t\tout += ' ' + $data + ', (dataPath || '\\');\n\n\t\t\t\t\t\t\t\t\t\t\tif (it.errorPath !==
'') {\n\n\t\t\t\t\t\t\t\t\t\t\t\tout += ' ' + it.errorPath;\n\n\t\t\t\t\t\t\t\t\t\t\t}\n\n\t\t\t\t\t\t\t\t\t\t\tvar $parentData = $dataLvl ? 'data' + ($dataLvl - 1 || '') :
'parentData';\n\n\t\t\t\t\t\t\t\t\t\t\t\t$parentDataProperty = $dataLvl ? it.dataPathArr[$dataLvl] : 'parentDataProperty';\n\n\t\t\t\t\t\t\t\t\t\t\t\tout += '
, ' + $parentData + ', ' + $parentDataProperty + ', rootData);\n\n\t\t\t\t\t\t\t\t\t\t\t\tvar __callValidate = out;\n\n\t\t\t\t\t\t\t\t\t\t\t\tout =
$$outStack.pop();\n\n\t\t\t\t\t\t\t\t\t\t\t\tif ($async) {\n\n\t\t\t\t\t\t\t\t\t\t\t\t\tif (!it.async) throw new Error('async schema referenced by sync schema');\n\n\t\t\t\t\t\t\t\t\t\t\t\t\tif
($breakOnError) {\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\tout += ' var ' + $valid + ';\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t}\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\tout += ' try {' + it.yieldAwait + ' ' +
__callValidate + ';\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\tif ($breakOnError) {\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\tout += ' ' + $valid + ' = true;\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t}\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\tout += ' } catch
(e) {\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\tif (!(e instanceof ValidationError)) throw e;\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\tif (vErrors === null) vErrors = e.errors; else vErrors =
vErrors.concat(e.errors);\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\terrors = vErrors.length;\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\tif ($breakOnError) {\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\tout += ' ' + $valid + ' = false;\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t}\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t} else {\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\tout += ' if (!' + __callValidate + ') {\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\tif (vErrors === null) vErrors = ' + $refCode + '.errors; else vErrors =
vErrors.concat(' + $refCode + '.errors);\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\terrors = vErrors.length;\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t}\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\tif ($breakOnError) {\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\tout

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||");\n\t var $errs = 'errs__' + $lvl;\n\t var $it = it.util.copy(it);\n\t var $closingBraces = ";\n\t $it.level++;\n\t var
$nextValid = 'valid' + $it.level;\n\t var $schemaDeps = {},\n\t $propertyDeps = {},\n\t $ownProperties =
it.opts.ownProperties;\n\t for ($property in $schema) {\n\t var $sch = $schema[$property];\n\t var $deps =
Array.isArray($sch) ? $propertyDeps : $schemaDeps;\n\t $deps[$property] = $sch;\n\t }\n\t out += 'var ' + $errs +
' = errors;';\n\t var $currentErrorPath = it.errorPath;\n\t out += 'var missing' + $lvl + ' ';\n\t for (var $property in
$propertyDeps) {\n\t $deps = $propertyDeps[$property];\n\t if ($deps.length) {\n\t out += 'if ( ' + $data +
it.util.getProperty($property) + ' !== undefined ';\n\t if ($ownProperties) {\n\t out += ' &&
Object.prototype.hasOwnProperty.call( ' + $data + ', \'' + it.util.escapeQuotes($property) + '\') ';\n\t }\n\t if
($breakOnError) {\n\t out += '
&& ( ';\n\t var arr1 = $deps;\n\t if (arr1) {\n\t var $propertyKey,\n\t $i = -1,\n\t $l1 =
arr1.length - 1;\n\t while ($i < $l1) {\n\t $propertyKey = arr1[$i += 1];\n\t if ($i) {\n\t out
+= ' || ';\n\t }\n\t var $prop = it.util.getProperty($propertyKey),\n\t $useData = $data +
$prop;\n\t out += ' ( ( ' + $useData + ' === undefined ';\n\t if ($ownProperties) {\n\t out += ' || !
Object.prototype.hasOwnProperty.call( ' + $data + ', \'' + it.util.escapeQuotes($propertyKey) + '\') ';\n\t }\n\t
out += ') && (missing' + $lvl + ' = ' + it.util.toQuotedString(it.opts.jsonPointers ? $propertyKey : $prop) + ') )
';\n\t }\n\t }\n\t out += ') { ';\n\t var $propertyPath = 'missing' + $lvl,\n\t $missingProperty
= '\\ ' + $propertyPath + ' + \\';\n\t if (it.opts._errorDataPathProperty)
{\n\t it.errorPath = it.opts.jsonPointers ? it.util.getPathExpr($currentErrorPath, $propertyPath, true) :
$currentErrorPath + ' + ' + $propertyPath;\n\t }\n\t var $$outStack = $$outStack || [];\n\t
$$outStack.push(out);\n\t out = "/* istanbul ignore else */\n\t if (it.createErrors !== false) {\n\t out
+= ' { keyword: \'' + 'dependencies' + '\', dataPath: (dataPath || \'' + it.errorPath + ' , schemaPath: ' +
it.util.toQuotedString($errSchemaPath) + ' , params: { property: \'' + it.util.escapeQuotes($property) + '\',
missingProperty: \'' + $missingProperty + '\', depsCount: ' + $deps.length + ' , deps: \'' +
it.util.escapeQuotes($deps.length === 1 ? $deps[0] : $deps.join(', ')) + '\'} ';\n\t if (it.opts.messages !== false)
{\n\t out += ' , message: \\should have ';\n\t if ($deps.length === 1) {\n\t out += 'property ' +
it.util.escapeQuotes($deps[0]);\n\t
}\n\t out += 'properties ' + it.util.escapeQuotes($deps.join(', '));\n\t }\n\t out +=
' when property ' + it.util.escapeQuotes($property) + ' is present\\ ';\n\t }\n\t if (it.opts.verbose) {\n\t
out += ' , schema: validate.schema' + $schemaPath + ' , parentSchema: validate.schema' + it.schemaPath + ' , data: '
+ $data + ' ';\n\t }\n\t out += ' } ';\n\t } else {\n\t out += ' { } ';\n\t }\n\t var __err =
out;\n\t out = $$outStack.pop();\n\t if (!it.compositeRule && $breakOnError) {\n\t /* istanbul ignore
if */\n\t if (it.async) {\n\t out += ' throw new ValidationError([' + __err + ']); ';\n\t } else {\n\t
out += ' validate.errors = [' + __err + ']; return false; ';\n\t }\n\t } else {\n\t out += ' var err = ' + __err
+ ' ; if (vErrors === null) vErrors = [err]; else vErrors.push(err);
errors++; ';\n\t }\n\t } else {\n\t out += ' } ';\n\t var arr2 = $deps;\n\t if (arr2) {\n\t var
$propertyKey,\n\t $i2 = -1,\n\t $l2 = arr2.length - 1;\n\t while ($i2 < $l2) {\n\t $propertyKey
= arr2[$i2 += 1];\n\t var $prop = it.util.getProperty($propertyKey),\n\t $missingProperty =
it.util.escapeQuotes($propertyKey),\n\t $useData = $data + $prop;\n\t if
(it.opts._errorDataPathProperty) {\n\t it.errorPath = it.util.getPath($currentErrorPath, $propertyKey,
it.opts.jsonPointers);\n\t }\n\t out += 'if ( ' + $useData + ' === undefined ';\n\t if
($ownProperties) {\n\t out += ' ! Object.prototype.hasOwnProperty.call( ' + $data + ', \'' +
it.util.escapeQuotes($propertyKey) + '\') ';\n\t }\n\t out += ') { var err = '/* istanbul ignore else
*/\n\t
if (it.createErrors !== false) {\n\t out += ' { keyword: \'' + 'dependencies' + '\', dataPath: (dataPath ||
\\') + ' + it.errorPath + ' , schemaPath: ' + it.util.toQuotedString($errSchemaPath) + ' , params: { property: \'' +
it.util.escapeQuotes($property) + '\', missingProperty: \'' + $missingProperty + '\', depsCount: ' + $deps.length + ' ,
deps: \'' + it.util.escapeQuotes($deps.length === 1 ? $deps[0] : $deps.join(', ')) + '\'} ';\n\t if
(it.opts.messages !== false) {\n\t out += ' , message: \\should have ';\n\t if ($deps.length === 1)

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    } else {
      out += ' when property ' +
        it.util.escapeQuotes($property) + ' is present';
      if (it.opts.verbose) {
        out += ', schema: validate.schema' + $schemaPath + ', parentSchema: validate.schema' + it.schemaPath + ',
        data: ' + $data + ' ';
      } else {
        out += ' { } ';
      }
      if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++;
    }
    if ($breakOnError) {
      $closingBraces += '}';
      out += ' else { ';
    }
    it.errorPath = $currentErrorPath;
    var $currentBaseId = $it.baseId;
    for (var $property in $schemaDeps) {
      var $sch = $schemaDeps[$property];
      if (it.util.schemaHasRules($sch, it.RULES.all)) {
        out += ' + $nextValid + ' = true; if ( ' + $data + it.util.getProperty($property) + ' !== undefined ';
        if ($ownProperties) {
          out += ' && Object.prototype.hasOwnProperty.call( ' + $data + ', \'' +
            it.util.escapeQuotes($property) +
            '\') ';
        }
        out += ') {
          $it.schema = $sch;
          $it.schemaPath = $schemaPath +
            it.util.getProperty($property);
          $it.errSchemaPath = $errSchemaPath + '/' +
            it.util.escapeFragment($property);
          out += ' ' + it.validate($it) + ' ';
          $it.baseId = $currentBaseId;
          out += ' ';
          if ($breakOnError) {
            out += ' if ( ' + $nextValid + ' ) {
              $closingBraces += '}';
            }
          }
          if ($breakOnError) {
            out += ' ' + $closingBraces + ' ' + $errs + ' == errors) {
          }
          out = it.util.cleanUpCode(out);
          return out;
        }
        /**/ },
        /* 47 */ function(module, exports) {
          'use strict';
          module.exports = function generate_enum(it, $keyword, $ruleType) {
            var out = '';
            var $lvl = it.level;
            var $dataLvl = it.dataLevel;
            var $schema = it.schema[$keyword];
            var $schemaPath = it.schemaPath + it.util.getProperty($keyword);
            var $errSchemaPath = it.errSchemaPath + '/' + $keyword;
            var $breakOnError = !it.opts.allErrors;
            var $data = 'data' + ($dataLvl || '');
            var $valid = 'valid' + $lvl;
            var $isData = it.opts.$data && $schema && $schema.$data;
            var $schemaValue;
            if ($isData) {
              out += ' var schema' + $lvl + ' = ' +
                it.util.getData($schema.$data, $dataLvl, it.dataPathArr) + ' ';
              $schemaValue = 'schema' + $lvl;
            } else {
              $schemaValue = $schema;
            }
            if (!$isData) {
              out += ' var $i = ' + $lvl;
              var $vSchema = 'schema' + $lvl;
              if (!$isData) {
                out += ' if (! $isData) {
                  out += ' var ' + $vSchema + ' = validate.schema' + $schemaPath + ' ';
                  out += ' var ' + $valid + ' = ' + $schemaValue + ' ';
                  if ($isData) {
                    out += ' if (schema' + $lvl + ' === undefined) ' + $valid + ' = true; else if (!Array.isArray(schema' +
                      $lvl + ')) ' + $valid + ' = false; else {
                      out += ' ' + $valid + ' = false; for (var ' + $i + '=0; ' + $i + '<' +
                      $vSchema + '.length; ' + $i + '++)
                    }
                  }
                  if (equal( ' + $data + ', ' + $vSchema + '[' + $i + ' ])) { ' + $valid + ' = true; break; }
                  if ($isData) {
                    out += ' }
                  }
                  out += ' if (! ' + $valid + ' ) {
                    var $$outStack = $$outStack || [];
                    $$outStack.push(out);
                    out =
                      '/* istanbul ignore else */
                    if (it.createErrors !== false) {
                      out += ' { keyword: \'' + 'enum' + '\', dataPath:
                      (dataPath || '\') + ' + it.errorPath + ', schemaPath: ' + it.util.toQuotedString($errSchemaPath) + ', params: {
                      allowedValues: schema' + $lvl + ' }
                    }
                    if (it.opts.messages !== false) {
                      out += ' , message: \'' + 'should be equal to one of the allowed values\'
                    }
                    if (it.opts.verbose) {
                      out += ' , schema: validate.schema' +
                        $schemaPath + ', parentSchema: validate.schema' + it.schemaPath + ', data: ' + $data + ' ';
                    }
                    out += ' }
                  }
                  } else {
                    out += ' { }
                  }
                  var __err = out;
                  out = $$outStack.pop();
                  if (!it.compositeRule && $breakOnError) {
                    /* istanbul ignore if */
                    if (it.async) {
                      out += ' throw new ValidationError([ ' +
                        __err + ' ]);
                    }
                  }
                  } else {
                    out += ' validate.errors = [ ' + __err + ' ]; return false;
                  }
                } else {
                  out += ' var err = ' + __err + ' ; if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++;
                }
              }
            }
            if ($breakOnError) {
              out += ' else {
                return out;
              }
            }
            /**/
          }
          function(module, exports) {
            'use strict';
            var _typeof = typeof Symbol === "function" && typeof Symbol.iterator === "symbol" ? function (obj) { return typeof obj; } : function (obj) { return obj && typeof Symbol === "function" && obj.constructor === Symbol && obj !== Symbol.prototype ? "symbol" : typeof obj; };
            module.exports = function generate_format(it, $keyword, $ruleType) {
              var out = '';
              var $lvl = it.level;
              var $dataLvl = it.dataLevel;
              var $schema = it.schema[$keyword];
              var $schemaPath = it.schemaPath + it.util.getProperty($keyword);
              var $errSchemaPath = it.errSchemaPath + '/' + $keyword;
              var $breakOnError = !it.opts.allErrors;
              var $data = 'data' + ($dataLvl || '');
              var $valid = 'valid' + $lvl;
              var $isData = it.opts.$data && $schema && $schema.$data;
              var $schemaFormat;
              if ($isData) {
                out += ' var schema' + $lvl + ' = ' +
                  it.util.getData($schema.$data, $dataLvl, it.dataPathArr) + ' ';
                $schemaFormat = 'schema' + $lvl;
              } else {
                $schemaFormat = $schema;
              }
              if (typeof $schemaFormat !== 'string') {
                out += ' var $i = ' + $lvl;
                var $vSchema = 'schema' + $lvl;
                if (!$isData) {
                  out += ' if (! $isData) {
                    out += ' var ' + $vSchema + ' = ' + $schemaFormat + ' ';
                    if ($isData) {
                      out += ' if (schema' + $lvl + ' === undefined) ' + $valid + ' = true; else if (!Array.isArray(schema' +
                        $lvl + ')) ' + $valid + ' = false; else {
                        out += ' ' + $valid + ' = false; for (var ' + $i + '=0; ' + $i + '<' +
                        $vSchema + '.length; ' + $i + '++)
                      }
                    }
                    if (equal( ' + $data + ', ' + $vSchema + '[' + $i + ' ])) { ' + $valid + ' = true; break; }
                    if ($isData) {
                      out += ' }
                    }
                    out += ' if (! ' + $valid + ' ) {
                      var $$outStack = $$outStack || [];
                      $$outStack.push(out);
                      out =
                        '/* istanbul ignore else */
                      if (it.createErrors !== false) {
                        out += ' { keyword: \'' + 'format' + '\', dataPath:
                        (dataPath || '\') + ' + it.errorPath + ', schemaPath: ' + it.util.toQuotedString($errSchemaPath) + ', params: {
                        allowedValues: schema' + $lvl + ' }
                      }
                      if (it.opts.messages !== false) {
                        out += ' , message: \'' + 'should be equal to one of the allowed values\'
                      }
                      if (it.opts.verbose) {
                        out += ' , schema: validate.schema' +
                          $schemaPath + ', parentSchema: validate.schema' + it.schemaPath + ', data: ' + $data + ' ';
                      }
                      out += ' }
                    }
                    } else {
                      out += ' { }
                    }
                    var __err = out;
                    out = $$outStack.pop();
                    if (!it.compositeRule && $breakOnError) {
                      /* istanbul ignore if */
                      if (it.async) {
                        out += ' throw new ValidationError([ ' +
                          __err + ' ]);
                      }
                    }
                    } else {
                      out += ' validate.errors = [ ' + __err + ' ]; return false;
                    }
                  }
                } else {
                  out += ' var err = ' + __err + ' ; if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++;
                }
              }
            }
            if ($breakOnError) {
              out += ' else {
                return out;
              }
            }
            /**/
          }
        }
      }
    }
  }
}

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    $schema = it.schema[$keyword];\n\t var $schemaPath = it.schemaPath + it.util.getProperty($keyword);\n\t var
    $errSchemaPath = it.errSchemaPath + '/' + $keyword;\n\t var $breakOnError = !it.opts.allErrors;\n\t var $data =
    'data' + ($dataLvl || '');\n\t if (it.opts.format === false) {\n\t   if ($breakOnError) {\n\t     out += ' if (true) {';\n\t   }\n\t   return out;\n\t }\n\t var $isData = it.opts.$data && $schema && $schema.$data,\n\t   $schemaValue;\n\t if ($isData) {\n\t   out += ' var schema' + $lvl + ' = ' + it.util.getData($schema.$data, $dataLvl, it.dataPathArr) +
    ';'\n\t   $schemaValue = 'schema' + $lvl;\n\t } else {\n\t   $schemaValue = $schema;\n\t }\n\t var
    $unknownFormats = it.opts.unknownFormats,\n\t   $allowUnknown = Array.isArray($unknownFormats);\n\t if
    ($isData) {\n\t   var $format = 'format' + $lvl,\n\t     $isObject = 'isObject' + $lvl,\n\t     $formatType =
    'formatType' + $lvl;\n\t   out += ' var ' + $format + ' = formats[' + $schemaValue
    + ']; var ' + $isObject + ' = typeof ' + $format + ' == \'object\' && !( ' + $format + ' instanceof RegExp) && ' +
    $format + '.validate; var ' + $formatType + ' = ' + $isObject + ' && ' + $format + '.type || \'string\'; if ( ' + $isObject
    + ' ) {\n\t   if (it.async) {\n\t     out += ' var async' + $lvl + ' = ' + $format + '.async;';\n\t   }\n\t   out += ' ' +
    $format + ' = ' + $format + '.validate; } if ( ';\n\t   if ($isData) {\n\t     out += ' ( ' + $schemaValue + ' !== undefined
    && typeof ' + $schemaValue + ' !== \'string\' ) ||';\n\t   }\n\t   out += ' (;\n\t   if ($unknownFormats !== 'ignore')
    {\n\t     out += ' ( ' + $schemaValue + ' && ! ' + $format + ';\n\t     if ($allowUnknown) {\n\t       out += ' &&
    self._opts.unknownFormats.indexOf( ' + $schemaValue + ' ) === -1;\n\t     }\n\t     out += ' ) ||';\n\t   }\n\t   out += ' ( ' +
    $format + ' && ' + $formatType + ' === \'' + $ruleType + '\'' && !(typeof ' + $format + ' === \'function\' ?';\n\t   if
    (it.async) {\n\t     out += ' (async' + $lvl + ' ? ' + it.yieldAwait + ' ' + $format + ' ( ' + $data + ' ) : ' + $format + ' ( ' +
    $data + ' ) );\n\t   } else {\n\t     out += ' ' + $format + ' ( ' + $data + ' );\n\t   }\n\t   out += ' : ' + $format + '.test( ' +
    $data + ' ) ) )';\n\t   } else {\n\t     var $format = it.formats[$schema];\n\t     if (!$format) {\n\t       if
    ($unknownFormats === 'ignore') {\n\t         console.warn('unknown format \'' + $schema + '\'' ignored in schema at
    path \'' + it.errSchemaPath + '\');\n\t       }\n\t       if ($breakOnError) {\n\t         out += ' if (true) {';\n\t       }\n\t       return
    out;\n\t     } else if ($allowUnknown && $unknownFormats.indexOf($schema) >= 0) {\n\t       if ($breakOnError)
    {\n\t         out += ' if (true) {';\n\t       }\n\t       return out;\n\t     } else {\n\t       throw new Error('unknown format
    \'' + $schema + '\'' is used in schema at path \'' + it.errSchemaPath + '\');\n\t     }\n\t     }\n\t     var $isObject =
    (typeof
    $format === 'undefined' ? 'undefined' : _typeof($format)) === 'object' && !($format instanceof RegExp) &&
    $format.validate;\n\t     var $formatType = $isObject && $format.type || 'string';\n\t     if ($isObject) {\n\t       var
    $async = $format.async === true;\n\t       $format = $format.validate;\n\t     }\n\t     if ($formatType !== $ruleType)
    {\n\t       if ($breakOnError) {\n\t         out += ' if (true) {';\n\t       }\n\t       return out;\n\t     }\n\t     if ($async) {\n\t       if
    (!it.async) throw new Error('async format in sync schema');\n\t       var $formatRef = 'formats' +
    it.util.getProperty($schema) + '.validate';\n\t       out += ' if ( ! ( ' + it.yieldAwait + ' ' + $formatRef + ' ( ' + $data + ' ) ) ) {\n\t
    } else {\n\t       out += ' if ( !';\n\t       var $formatRef = 'formats' + it.util.getProperty($schema);\n\t       if
    ($isObject) $formatRef += '.validate';\n\t       if (typeof $format === 'function') {\n\t         out += ' ' + $formatRef + ' ( ' +
    $data + ' );\n\t       } else {\n\t         out += ' ' + $formatRef + '.test( ' + $data + ' );\n\t       }\n\t       }\n\t       out += ' ) {\n\t
    }\n\t       out += ' }';\n\t       var $$outStack =
    $$outStack || [];\n\t       $$outStack.push(out);\n\t       out = ''; /* istanbul ignore else */\n\t       if (it.createErrors !== false)
    {\n\t         out += ' { keyword: \'' + 'format' + '\', dataPath: (dataPath || \'\') + ' + it.errorPath + ', schemaPath: ' +
    it.util.toQuotedString($errSchemaPath) + ', params: { format: ';;\n\t         if ($isData) {\n\t           out += " +
    $schemaValue;\n\t         } else {\n\t           out += " + it.util.toQuotedString($schema);\n\t         }\n\t         out += ' ';;\n\t         if
    (it.opts.messages !== false) {\n\t           out += ', message: \'' + 'should match format \'' + '\';\n\t           if ($isData) {\n\t             out
    += '\'' + $schemaValue + ' + '\'';\n\t           } else {\n\t             out += " + it.util.escapeQuotes($schema);\n\t           }\n\t           out
    += '\'' + $schemaValue + ' + '\'';\n\t           }\n\t           if (it.opts.verbose) {\n\t             out += ', schema: ';;\n\t             if ($isData) {\n\t               out +=
    'validate.schema' + $schemaPath;\n\t             } else {\n\t               out += " + it.util.toQuotedString($schema);\n\t             }\n\t             out +=
    ', parentSchema: validate.schema' + it.schemaPath + ', data: ' + $data + ';\n\t           }\n\t           out += ' }';\n\t           } else {\n\t             out += ' }';\n\t           }\n\t           var __err = out;\n\t           out = $$outStack.pop();\n\t           if (!it.compositeRule &&
    $breakOnError) {\n\t             /* istanbul ignore if */\n\t             if (it.async) {\n\t               out += ' throw new ValidationError([ ' +
    __err + ' ]);';\n\t             } else {\n\t               out += ' validate.errors = [ ' + __err + ' ]; return false;';\n\t             }\n\t           }\n\t           } else {\n\t             out
    
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+= ' var err = ' + __err + '; if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++; ';
}';
if ($breakOnError) {
  out += ' else {';
} return out;
function(module, exports) {
'use strict';
var _typeof = typeof Symbol === 'function' && typeof Symbol.iterator === 'symbol' ? function (obj) { return typeof obj; } : function (obj) { return obj && typeof Symbol === 'function' && obj.constructor === Symbol && obj !== Symbol.prototype ? 'symbol' : typeof obj; };
module.exports = function generate_items(it, $keyword, $ruleType) {
  var out = '';
  var $lvl = it.level;
  var $dataLvl = it.dataLevel;
  var $schema = it.schema[$keyword];
  var $schemaPath = it.schemaPath + it.util.getProperty($keyword);
  var $errSchemaPath = it.errSchemaPath + '/' + $keyword;
  var $breakOnError = !it.opts.allErrors;
  var $data = 'data' + ($dataLvl || '');
  var $valid = 'valid' + $lvl;
  var $serrs = 'errs_' + $lvl;
  var $it = it.util.copy(it);
  var $closingBraces = '';
  $it.level++;
  var $nextValid = 'valid' + $it.level;
  var $idx = 'i' + $lvl;
  $dataNxt = $it.dataLevel = it.dataLevel + 1;
  $nextData = 'data' + $dataNxt;
  $currentBaseId = it.baseId;
  out += 'var ' + $errSchemaPath + ' = errors;var ' + $valid + ' =';
  if (Array.isArray($schema)) {
    out += ' var $additionalItems = it.schema.additionalItems;';
    if ($additionalItems === false) {
      out += ' + $valid + ' = ' + $data + '.length <= ' + $schema.length + ' ';
    }
    var $currErrSchemaPath = $errSchemaPath;
    $errSchemaPath = it.errSchemaPath + '/additionalItems';
    out += ' if (!' + $valid + ') {';
    var $$outStack = $$outStack || [];
    $$outStack.push(out);
    out = '';
    /* istanbul ignore else */
    if (it.createErrors !== false) {
      out += ' { keyword: \'' + 'additionalItems' + '\', dataPath: (' + $dataPath + ' + ' + it.errorPath + ', schemaPath: ' + it.util.toQuotedString($errSchemaPath) + ', params: { limit: ' + $schema.length + ' }';
      if (it.opts.messages !== false) {
        out += ', message: \'' + 'should NOT have more than ' + $schema.length + ' items\'';
      }
      if (it.opts.verbose) {
        out += ', schema: false , parentSchema: validate.schema' + it.schemaPath + ', data: ' + $data + ' ';
      }
      out += ' }';
    } else {
      out += ' }';
    }
    var __err = out;
    out = $$outStack.pop();
    if (!it.compositeRule && $breakOnError) {
      /* istanbul ignore else */
      if (it.async) {
        out += ' throw new ValidationError([' + __err + ']);';
      } else {
        out += ' validate.errors = [' + __err + ']; return false;';
      }
    } else {
      out += ' var err = ' + __err + '; if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++;';
    }
    $errSchemaPath = $currErrSchemaPath;
    if ($breakOnError) {
      $closingBraces += '};';
    } else {
      out += ' else {';
    }
    var arr1 = $schema;
    if (arr1) {
      var $sch = arr1[0];
      var $i = -1;
      var $l1 = arr1.length - 1;
      while ($i < $l1) {
        $sch = arr1[$i + 1];
        if (it.util.schemaHasRules($sch, it.RULES.all)) {
          out += ' + $nextValid + ' = true; if (' + $data + '.length > ' + $i + ') {';
          var $passData = $data + '[' + $i + ']';
          $it.schema = $sch;
          $it.schemaPath = $schemaPath + '[' + $i + ']';
          $it.errSchemaPath = $errSchemaPath + '/' + $i;
          $it.errorPath = it.util.getPathExpr(it.errorPath, $i, it.opts.jsonPointers, true);
          $it.dataPathArr[$dataNxt] = $i;
          var $code = it.validate($it);
          $it.baseId = $currentBaseId;
          if (it.util.varOccurences($code, $nextData) < 2) {
            out += ' ' + it.util.varReplace($code, $nextData, $passData) + ' ';
          } else {
            out += ' var ' + $nextData + ' = ' + $passData + ';';
          }
          if ($breakOnError) {
            out += ' if (' + $nextValid + ') {';
            $closingBraces += '};';
          } else {
            out += ' }';
          }
          if (typeof $additionalItems === 'undefined' ? 'undefined' : _typeof($additionalItems)) === 'object' && it.util.schemaHasRules($additionalItems, it.RULES.all)) {
            $it.schema = $additionalItems;
            $it.schemaPath = it.schemaPath + '.additionalItems';
            $it.errSchemaPath = it.errSchemaPath + '/additionalItems';
            out += ' + $nextValid + ' = true; if (' + $data + '.length > ' + $schema.length + ') { for (var ' + $idx + ' = ' + $schema.length + '; ' + $idx + ' < ' + $data + '.length; ' + $idx + '++) {';
            $it.errorPath = it.util.getPathExpr(it.errorPath, $idx, it.opts.jsonPointers, true);
            var $passData = $data + '[' + $idx + ']';
            $it.dataPathArr[$dataNxt] = $idx;
            var $code = it.validate($it);
            $it.baseId = $currentBaseId;
            if (it.util.varOccurences($code, $nextData) < 2) {

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    out += ' ' + it.util.varReplace($code, $nextData, $passData) + ';\n\t } else {\n\t     out += ' var ' +
$nextData + ' = ' + $passData + ';\n\t     };\n\t     if ($breakOnError) {\n\t         out += ' if (! +
$nextValid + ') break;';\n\t     }\n\t     out += ' }';\n\t     if ($breakOnError) {\n\t         out += ' if ( + $nextValid +
') {;\n\t         $closingBraces += '};\n\t     }\n\t     } else if (it.util.schemaHasRules($schema, it.RULES.all))
{\n\t     $it.schema = $schema;\n\t     $it.schemaPath = $schemaPath;\n\t     $it.errSchemaPath = $errSchemaPath;\n\t
out += ' for (var ' + $idx + ' = ' + 0 + ';\n\t     ' + $idx + ' < ' + $data + '.length; ' + $idx + '++) {;\n\t     $it.errorPath =
it.util.getPathExpr(it.errorPath, $idx, it.opts.jsonPointers, true);\n\t     var $passData = $data + '[' + $idx + '];\n\t
$it.dataPathArr[$dataNxt] = $idx;\n\t     var $code = it.validate($it);\n\t     $it.baseId = $currentBaseId;\n\t     if
(it.util.varOccurrences($code,
$nextData) < 2) {\n\t         out += ' ' + it.util.varReplace($code, $nextData, $passData) + ';\n\t     } else {\n\t         out +=
' var ' + $nextData + ' = ' + $passData + ';\n\t     ' + $code + ';\n\t     }\n\t     if ($breakOnError) {\n\t         out += ' if (! +
$nextValid + ') break;';\n\t     }\n\t     out += ' }';\n\t     }\n\t     if ($breakOnError) {\n\t         out += ' ' + $closingBraces + ' if
( + $errs + ' == errors) {;\n\t     }\n\t     out = it.util.cleanUpCode(out);\n\t     return out;\n\t};\n\n/***/ },\n\n* 50 *\n\n/***/
function(module, exports) {\n\n\t'use strict';\n\t\n\tmodule.exports = function generate__limit(it, $keyword,
$ruleType) {\n\t     var out = ';\n\t     var $lvl = it.level;\n\t     var $dataLvl = it.dataLevel;\n\t     var $schema =
it.schema[$keyword];\n\t     var $schemaPath = it.schemaPath + it.util.getProperty($keyword);\n\t     var
$errorSchemaPath = it.errSchemaPath + '/' + $keyword;\n\t     var $breakOnError = !it.opts.allErrors;\n\t     var
$errorKeyword;\n\t     var $data = 'data' + ($dataLvl
|| '');\n\t     var $isData = it.opts.$data && $schema && $schema.$data;\n\t     $schemaValue;\n\t     if ($isData) {\n\t
out += ' var schema' + $lvl + ' = ' + it.util.getData($schema.$data, $dataLvl, it.dataPathArr) + ';\n\t
$schemaValue = 'schema' + $lvl;\n\t     } else {\n\t         $schemaValue = $schema;\n\t     }\n\t     var $isMax = $keyword ==
'maximum';\n\t     $exclusiveKeyword = $isMax ? 'exclusiveMaximum' : 'exclusiveMinimum';\n\t     $schemaExcl
= it.schema[$exclusiveKeyword];\n\t     $isDataExcl = it.opts.$data && $schemaExcl && $schemaExcl.$data;\n\t
$op = $isMax ? '<' : '>';\n\t     $notOp = $isMax ? '>' : '<';\n\t     $errorKeyword = undefined;\n\t     if ($isDataExcl)
{\n\t         var $schemaValueExcl = it.util.getData($schemaExcl.$data, $dataLvl, it.dataPathArr);\n\t         $exclusive =
'exclusive' + $lvl;\n\t         $exclType = 'exclType' + $lvl;\n\t         $exclIsNumber = 'exclIsNumber' + $lvl;\n\t
$opExpr = 'op' + $lvl;\n\t         $opStr = '\\ ' + $opExpr
+ ' + \\';\n\t         out += ' var schemaExcl' + $lvl + ' = ' + $schemaValueExcl + ';\n\t         $schemaValueExcl =
'schemaExcl' + $lvl;\n\t         out += ' var ' + $exclusive + ';\n\t         var ' + $exclType + ' = typeof ' + $schemaValueExcl + ';\n\t
if ( + $exclType + ' != \\boolean\\ && ' + $exclType + ' != \\undefined\\ && ' + $exclType + ' != \\number\\) {\n\t
var $errorKeyword = $exclusiveKeyword;\n\t         var $$outStack = $$outStack || [];\n\t         $$outStack.push(out);\n\t
out = ';\n\t         /* istanbul ignore else */\n\t         if (it.createErrors !== false) {\n\t             out += ' { keyword: \\ ' + ($errorKeyword
|| '_exclusiveLimit') + '\\ , dataPath: (dataPath || \\ \\) + ' + it.errorPath + ' , schemaPath: ' +
it.util.toQuotedString($errorSchemaPath) + ' , params: { }';\n\t             if (it.opts.messages !== false) {\n\t                 out += ' ,
message: \\ ' + $exclusiveKeyword + ' should be boolean\\';\n\t             }\n\t             if (it.opts.verbose) {\n\t                 out += ' ,
schema: validate.schema' + $schemaPath + '
, parentSchema: validate.schema' + it.schemaPath + ' , data: ' + $data + ';\n\t             }\n\t             out += ' }';\n\t         } else
{\n\t             out += ' }';\n\t         }\n\t         var __err = out;\n\t         out = $$outStack.pop();\n\t         if (!it.compositeRule &&
$breakOnError) {\n\t             /* istanbul ignore if */\n\t             if (it.async) {\n\t                 out += ' throw new ValidationError([' +
__err + ']);\n\t             }\n\t             } else {\n\t                 out += ' validate.errors = [' + __err + '];\n\t                 return false;';\n\t             }\n\t         } else {\n\t
out += ' var err = ' + __err + ';\n\t         if (vErrors === null) vErrors = [err];\n\t         else vErrors.push(err);\n\t         errors++;;\n\t     }\n\t
out += ' } else if (;\n\t     if ($isData) {\n\t         out += ' ( ' + $schemaValue + ' !== undefined && typeof ' +
$schemaValue + ' !== \\number\\) ||;\n\t     }\n\t     out += ' ' + $exclType + ' == \\number\\' ? ( ( ' + $exclusive + ' = ' +
$schemaValue + ' === undefined || ' + $schemaValueExcl + ' + ' + $op + ' = ' + $schemaValue + ' ) ? ' + $data + '
+ $notOp + ' = ' + $schemaValueExcl + ' : ' + $data + ' + $notOp + ' + $schemaValue + ' ) : ( ( ' + $exclusive + ' = ' +
$schemaValueExcl + ' === true ) ? ' + $data + ' + $notOp + ' = ' + $schemaValue + ' : ' + $data + ' + $notOp + ' +
$schemaValue + ' ) || ' + $data + ' !== ' + $data + ' ) {\n\t     var op' + $lvl + ' = ' + $exclusive + ' ? \\ ' + $op + '\\ : \\ ' + $op
+ ' \\';\n\t     } else {\n\t         var $exclIsNumber = typeof $schemaExcl == 'number';\n\t         $opStr = $op;\n\t         if

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($exclIsNumber && $isData) {\n\t    var $opExpr = '\' + $opStr + \'';\n\t    out += ' if ( '\n\t    if ($isData) {\n\t
    out += ' (' + $schemaValue + ' !== undefined && typeof ' + $schemaValue + ' !== \\'number\\') || '\n\t    }\n\t
out += ' (' + $schemaValue + ' === undefined || ' + $schemaExcl + ' + ' + $op + ' = ' + $schemaValue + ' ? ' + $data + '
+ $notOp + ' = ' + $schemaExcl + ' : ' + $data + ' + $notOp + ' + ' + $schemaValue + ' ) || ' + $data + ' !== ' + $data + '
) {\n\t
    } else {\n\t    if ($exclIsNumber && $schema === undefined) {\n\t        $exclusive = true;\n\t
$errorKeyword = $exclusiveKeyword;\n\t        $errSchemaPath = it.errSchemaPath + '/' + $exclusiveKeyword;\n\t
    $schemaValue = $schemaExcl;\n\t        $notOp += '=';\n\t    } else {\n\t        if ($exclIsNumber) $schemaValue =
Math[$isMax ? 'min' : 'max']($schemaExcl, $schema);\n\t        if ($schemaExcl === ($exclIsNumber ?
    $schemaValue : true)) {\n\t            $exclusive = true;\n\t            $errorKeyword = $exclusiveKeyword;\n\t
            $errSchemaPath = it.errSchemaPath + '/' + $exclusiveKeyword;\n\t            $notOp += '=';\n\t        } else {\n\t
            $exclusive = false;\n\t            $opStr += '=';\n\t        }\n\t    }\n\t    var $opExpr = '\' + $opStr + \'';\n\t    out += '
if ( '\n\t    if ($isData) {\n\t        out += ' (' + $schemaValue + ' !== undefined && typeof ' + $schemaValue + ' !==
\''number\\') || '\n\t    }\n\t    out += ' + $data
+ ' + $notOp + ' + ' + $schemaValue + ' || ' + $data + ' !== ' + $data + ' ) {\n\t    }\n\t    $errorKeyword =
$errorKeyword || $keyword;\n\t    var $$outStack = $$outStack || [];\n\t    $$outStack.push(out);\n\t    out = "/* istanbul
ignore else *\n\t    if (it.createErrors !== false) {\n\t        out += ' { keyword: \'' + ($errorKeyword || '_limit') + '\',
dataPath: (dataPath || \'\') + ' + it.errorPath + ', schemaPath: ' + it.util.toQuotedString($errSchemaPath) + ', params:
{ comparison: ' + $opExpr + ', limit: ' + $schemaValue + ', exclusive: ' + $exclusive + ' } '\n\t        if (it.opts.messages
!== false) {\n\t            out += ', message: \\'should be ' + $opStr + '\';\n\t            if ($isData) {\n\t                out += '\'' + ' +
    $schemaValue;\n\t            } else {\n\t                out += " + $schemaValue + \'';\n\t            }\n\t        }\n\t        if (it.opts.verbose) {\n\t
            out += ', schema: '\n\t            if ($isData) {\n\t                out += 'validate.schema' + $schemaPath;\n\t            } else {\n\t
                out += " + $schema;\n\t            }\n\t            out += '    , parentSchema: validate.schema' + it.schemaPath + ', data: ' +
    $data + '\';\n\t        }\n\t        out += ' } '\n\t    } else {\n\t        out += ' { } '\n\t    }\n\t    var __err = out;\n\t    out =
    $$outStack.pop();\n\t    if (!it.compositeRule && $breakOnError) {\n\t        /* istanbul ignore if *\n\t        if (it.async) {\n\t
            out += ' throw new ValidationError([' + __err + ']);\n\t        } else {\n\t            out += ' validate.errors = [' + __err + '];
            return false;\n\t        }\n\t    } else {\n\t        out += ' var err = ' + __err + '; if (vErrors === null) vErrors = [err]; else
vErrors.push(err); errors++; '\n\t    }\n\t    out += ' } '\n\t    if ($breakOnError) {\n\t        out += ' else { '\n\t    }\n\t    return
out;\n\t};\n\n/***/ },\n\n/* 51 *\n\n/***/ function(module, exports) {\n\n\t'use strict';\n\t\n\tmodule.exports = function
generate__limitItems(it, $keyword, $ruleType) {\n\t    var out = ' '\n\t    var $lvl = it.level;\n\t    var $dataLvl =
    it.dataLevel;\n\t
    var $schema = it.schema[$keyword];\n\t    var $schemaPath = it.schemaPath + it.util.getProperty($keyword);\n\t    var
    $errSchemaPath = it.errSchemaPath + '/' + $keyword;\n\t    var $breakOnError = !it.opts.allErrors;\n\t    var
    $errorKeyword;\n\t    var $data = 'data' + ($dataLvl || '');\n\t    var $isData = it.opts.$data && $schema &&
    $schema.$data;\n\t    $schemaValue;\n\t    if ($isData) {\n\t        out += ' var schema' + $lvl + ' = ' +
    it.util.getData($schema.$data, $dataLvl, it.dataPathArr) + ';\n\t        $schemaValue = 'schema' + $lvl;\n\t    } else {\n\t
        $schemaValue = $schema;\n\t    }\n\t    var $op = $keyword === 'maxItems' ? '>' : '<';\n\t    out += 'if ( '\n\t    if ($isData)
    {\n\t        out += ' (' + $schemaValue + ' !== undefined && typeof ' + $schemaValue + ' !== \\'number\\') || '\n\t    }\n\t
    out += ' + $data + '.length' + $op + ' + ' + $schemaValue + ' ) {\n\t        var $errorKeyword = $keyword;\n\t        var
    $$outStack = $$outStack || [];\n\t        $$outStack.push(out);\n\t        out = "/* istanbul ignore
else *\n\t        if (it.createErrors !== false) {\n\t            out += ' { keyword: \'' + ($errorKeyword || '_limitItems') + '\',
dataPath: (dataPath || \'\') + ' + it.errorPath + ', schemaPath: ' + it.util.toQuotedString($errSchemaPath) + ', params:
{ limit: ' + $schemaValue + ' } '\n\t            if (it.opts.messages !== false) {\n\t                out += ', message: \\'should NOT have
'\n\t                if ($keyword === 'maxItems') {\n\t                    out += 'more';\n\t                } else {\n\t                    out += 'less';\n\t                }\n\t            }\n\t
            out += ' than '\n\t            if ($isData) {\n\t                out += '\'' + $schemaValue + ' + \'';\n\t            } else {\n\t
                out += " + $schema;\n\t            }\n\t            out += ' items\\' '\n\t        }\n\t        if (it.opts.verbose) {\n\t
            out += ', schema: '\n\t            if ($isData) {\n\t                out += 'validate.schema' + $schemaPath;\n\t            } else {\n\t
                out += " + $schema;\n\t            }\n\t            out += '    , parentSchema: validate.schema' + it.schemaPath + ', data: ' + $data +

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';\n\t } \n\t out += ' }';\n\t } else {\n\t out += ' { }';\n\t } \n\t var __err = out;\n\t out = $$outStack.pop();\n\t if (!it.compositeRule && $breakOnError) {\n\t /* istanbul ignore if */\n\t if (it.async) {\n\t out += ' throw\n\t new ValidationError([' + __err + ']);';\n\t } else {\n\t out += ' validate.errors = [' + __err + ']; return false;';\n\t }\n\t } else {\n\t out += ' var err = ' + __err + '; if (vErrors === null) vErrors = [err]; else vErrors.push(err);\n\t errors++;';\n\t } \n\t out += ' }';\n\t if ($breakOnError) {\n\t out += ' else {';\n\t }\n\t return out;\n\t};\n\n/**/\n*/\n* 52 */\n*/\n function(module, exports) {\n\n\t'use strict';\n\t\n\tmodule.exports = function\n\tgenerate__limitLength(it, $keyword, $ruleType) {\n\t\n\t var out = ';\n\t var $lvl = it.level;\n\t var $dataLvl =\n\t it.dataLevel;\n\t var $schema = it.schema[$keyword];\n\t var $schemaPath = it.schemaPath +\n\t it.util.getProperty($keyword);\n\t var $errSchemaPath\n\t = it.errSchemaPath + '/' + $keyword;\n\t var $breakOnError = !it.opts.allErrors;\n\t var $errorKeyword;\n\t var $data = 'data' + ($dataLvl || '');\n\t var $isData = it.opts.$data && $schema && $schema.$data;\n\t var $schemaValue;\n\t if ($isData) {\n\t out += ' var schema' + $lvl + ' = ' + it.util.getData($schema.$data, $dataLvl,\n\t it.dataPathArr) + ';';\n\t $schemaValue = 'schema' + $lvl;\n\t } else {\n\t $schemaValue = $schema;\n\t }\n\t \n\t var $op = $keyword === 'maxLength' ? '>' : '<';\n\t out += 'if (';\n\t if ($isData) {\n\t out += '(' + $schemaValue +\n\t ' !== undefined && typeof ' + $schemaValue + ' !== \\number\\) ||';\n\t }\n\t if (it.opts.unicode === false) {\n\t out += ' ' + $data + '.length';\n\t } else {\n\t out += ' ucs2length(' + $data + ')';\n\t }\n\t out += ' ' + $op + ' ' +\n\t $schemaValue + ') {';\n\t var $errorKeyword = $keyword;\n\t var $$outStack = $$outStack || [];\n\t $$outStack.push(out);\n\t out = '';\n\t /* istanbul ignore else */\n\t *\n\t if (it.createErrors !== false) {\n\t out += ' { keyword: \\\"' + ($errorKeyword || '_limitLength') + '\\\",'\n\t dataPath: (dataPath || '\\\\') + ' + it.errorPath + ', schemaPath: ' + it.util.toQuotedString($errSchemaPath) + ', params:\n\t { limit: ' + $schemaValue + ' }';\n\t if (it.opts.messages !== false) {\n\t out += ', message: \\\"should NOT be\n\t';\n\t if ($keyword === 'maxLength') {\n\t out += 'longer';\n\t } else {\n\t out += 'shorter';\n\t }\n\t }\n\t out += ' than';\n\t if ($isData) {\n\t out += '\\\"' + $schemaValue + ' \\\"';\n\t } else {\n\t out += ' ' +\n\t $schema;\n\t }\n\t out += ' characters\\\"';\n\t }\n\t if (it.opts.verbose) {\n\t out += ', schema: '; \n\t if\n\t($isData) {\n\t out += 'validate.schema' + $schemaPath;\n\t } else {\n\t out += ' ' + $schema;\n\t }\n\t }\n\t out += ' , parentSchema: validate.schema' + it.schemaPath + ', data: ' + $data\n\t + '';\n\t }\n\t }\n\t } else {\n\t out += ' {}';\n\t }\n\t }\n\t var __err = out;\n\t out =\n\t $$outStack.pop();\n\t if (!it.compositeRule && $breakOnError) {\n\t /* istanbul ignore if */\n\t if (it.async) {\n\t out += ' throw new ValidationError([' + __err + ']);';\n\t } else {\n\t out += ' validate.errors = [' + __err + '];\n\t return false;';\n\t }\n\t } else {\n\t out += ' var err = ' + __err + '; if (vErrors === null) vErrors = [err]; else\n\t vErrors.push(err); errors++;';\n\t }\n\t }\n\t if ($breakOnError) {\n\t out += ' else {';\n\t }\n\t return\n\t out;\n\t};\n\n/**/\n*/\n* 53 */\n*/\n function(module, exports) {\n\n\t'use strict';\n\t\n\tmodule.exports = function\n\tgenerate__limitProperties(it, $keyword, $ruleType) {\n\t\n\t var out = ';\n\t var $lvl = it.level;\n\t var $dataLvl =\n\t it.dataLevel;\n\t var $schema = it.schema[$keyword];\n\t var $schemaPath = it.schemaPath +\n\t it.util.getProperty($keyword);\n\t var $errSchemaPath\n\t = it.errSchemaPath + '/' + $keyword;\n\t var $breakOnError = !it.opts.allErrors;\n\t var $data = 'data' + ($dataLvl || '');\n\t var $isData = it.opts.$data && $schema && $schema.$data;\n\t var $schemaValue;\n\t if ($isData) {\n\t out += ' var schema' + $lvl + ' = ' + it.util.getData($schema.$data, $dataLvl,\n\t it.dataPathArr) + ';';\n\t $schemaValue = 'schema' + $lvl;\n\t } else {\n\t $schemaValue = $schema;\n\t }\n\t \n\t var $op = $keyword === 'maxProperties' ? '>' : '<';\n\t out += 'if (';\n\t if ($isData) {\n\t out += '(' +\n\t $schemaValue + ' !== undefined && typeof ' + $schemaValue + ' !== \\number\\) ||';\n\t }\n\t out += ' Object.keys('\n\t + $data + ').length' + $op + ' ' + $schemaValue + ') {';\n\t var $errorKeyword = $keyword;\n\t var $$outStack =\n\t $$outStack || [];\n\t $$outStack.push(out);\n\t out = '';\n\t /* istanbul ignore else */\n\t *\n\t if (it.createErrors !== false) {\n\t out += ' { keyword: \\\"' + ($errorKeyword || '_limitProperties')\n\t + '\\\", dataPath: (dataPath || '\\\\') + ' + it.errorPath + ', schemaPath: ' + it.util.toQuotedString($errSchemaPath) + ',\n\t params: { limit: ' + $schemaValue + ' }';\n\t if (it.opts.messages !== false) {\n\t out += ', message: \\\"should\n\t NOT have';\n\t if ($keyword === 'maxProperties') {\n\t out += 'more';\n\t } else {\n\t out += 'less';\n\t }\n\t }\n\t out += ' than';\n\t if ($isData) {\n\t out += '\\\"' + $schemaValue + ' \\\"';\n\t } else {\n\t out\n\t

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out += " + $schema;\n\t }\n\t out += 'properties\\';\n\t }\n\t if (it.opts.verbose) {\n\t out += ' , schema:';
\n\t if ($isData) {\n\t out += 'validate.schema' + $schemaPath;\n\t } else {\n\t out += " +
\n\t $schema;\n\t }\n\t out += ' , parentSchema: validate.schema' + it.schemaPath + ' , data: ' + $data + '';\n\t
\n\t } else {\n\t out += ' '; \n\t } }\n\t } else {\n\t out += ' '; \n\t } }\n\t } var __err
\n\t = out;\n\t out = $$outStack.pop();\n\t if (!it.compositeRule && $breakOnError) {\n\t /* istanbul ignore if */\n\t if (it.async) {\n\t out += ' throw new ValidationError([' + __err + ']);';\n\t } else {\n\t out += ' validate.errors
\n\t = [' + __err + ']; return false;';\n\t }\n\t } else {\n\t out += ' var err = ' + __err + ' ; if (vErrors === null) vErrors
\n\t = [err]; else vErrors.push(err); errors++;';\n\t }\n\t }\n\t out += ' '; \n\t } if ($breakOnError) {\n\t out += ' else {';\n\t
\n\t }\n\t return out;\n\t};\n\n/***/ },\n\n/* 54 */\n\n/***/ function(module, exports) {\n\n\t'use strict';\n\t\n\tmodule.exports
\n\t= function generate_multipleOf(it, $keyword, $ruleType) {\n\t var out = ';\n\t var $lvl = it.level;\n\t var $dataLvl
\n\t = it.dataLevel;\n\t var $schema = it.schema[$keyword];\n\t var $schemaPath = it.schemaPath +
\n\t it.util.getProperty($keyword);\n\t var $errSchemaPath = it.errSchemaPath + '/' + $keyword;\n\t var $breakOnError
\n\t = !it.opts.allErrors;\n\t var $data
\n\t = 'data' + ($dataLvl || '');\n\t var $isData = it.opts.$data && $schema && $schema.$data;\n\t $schemaValue;\n\t
\n\t if ($isData) {\n\t out += ' var schema' + $lvl + ' = ' + it.util.getData($schema.$data, $dataLvl, it.dataPathArr) + '
\n\t ;\n\t $schemaValue = 'schema' + $lvl;\n\t } else {\n\t $schemaValue = $schema;\n\t }\n\t out += ' var division'
\n\t + $lvl + ';\n\t if (!($isData) {\n\t out += ' + $schemaValue + ' !== undefined && ( typeof ' + $schemaValue + '
\n\t !== \'number\' || ';\n\t }\n\t } out += ' (division' + $lvl + ' = ' + $data + ' / ' + $schemaValue + ' ,;\n\t if
\n\t (it.opts.multipleOfPrecision) {\n\t out += ' Math.abs(Math.round(division' + $lvl + ' ) - division' + $lvl + ' ) > 1e-'
\n\t + it.opts.multipleOfPrecision + ';\n\t } else {\n\t out += ' division' + $lvl + ' !== parseInt(division' + $lvl + ' );\n\t
\n\t }\n\t out += ' )';\n\t if ($isData) {\n\t out += ' )';\n\t }\n\t } out += ' ) {';\n\t var $$outStack = $$outStack ||
\n\t [];\n\t $$outStack.push(out);\n\t
\n\t out = ';\n\t /* istanbul ignore else */\n\t if (it.createErrors !== false) {\n\t out += ' { keyword: \'' + 'multipleOf' + '\''
\n\t , dataPath: (dataPath || '\') + ' + it.errorPath + ' , schemaPath: ' + it.util.toQuotedString($errSchemaPath) + ' ,
\n\t params: { multipleOf: ' + $schemaValue + ' }';\n\t if (it.opts.messages !== false) {\n\t out += ' , message:
\n\t \'' + 'should be multiple of';\n\t if ($isData) {\n\t out += ' \'' + $schemaValue;\n\t } else {\n\t out += "
\n\t + $schemaValue + '\'';\n\t }\n\t }\n\t } if (it.opts.verbose) {\n\t out += ' , schema: '; \n\t if ($isData) {\n\t
\n\t out += 'validate.schema' + $schemaPath;\n\t } else {\n\t out += " + $schema;\n\t }\n\t } out += ' ,
\n\t parentSchema: validate.schema' + it.schemaPath + ' , data: ' + $data + '';\n\t }\n\t } out += ' }';\n\t } else {\n\t
\n\t out += ' '; \n\t } }\n\t } var __err = out;\n\t out = $$outStack.pop();\n\t if
\n\t (!it.compositeRule && $breakOnError) {\n\t /* istanbul ignore if */\n\t if (it.async) {\n\t out += ' throw new
\n\t ValidationError([' + __err + ']);';\n\t } else {\n\t out += ' validate.errors = [' + __err + ']; return false;';\n\t
\n\t }\n\t } else {\n\t out += ' var err = ' + __err + ' ; if (vErrors === null) vErrors = [err]; else vErrors.push(err);
\n\t errors++;';\n\t }\n\t }\n\t out += ' '; \n\t } if ($breakOnError) {\n\t out += ' else {';\n\t }\n\t } return out;\n\t};\n\n/***/
\n\t },\n\n/* 55 */\n\n/***/ function(module, exports) {\n\n\t'use strict';\n\t\n\tmodule.exports
\n\t= function generate_not(it, $keyword, $ruleType) {\n\t var out = ';\n\t var $lvl = it.level;\n\t var $dataLvl = it.dataLevel;\n\t var $schema
\n\t = it.schema[$keyword];\n\t var $schemaPath = it.schemaPath + it.util.getProperty($keyword);\n\t var
\n\t $errSchemaPath = it.errSchemaPath + '/' + $keyword;\n\t var $breakOnError = !it.opts.allErrors;\n\t var $data =
\n\t 'data' + ($dataLvl || '');\n\t var $errs = 'errs_'
\n\t + $lvl;\n\t var $it = it.util.copy(it);\n\t $it.level++; \n\t var $nextValid = 'valid' + $it.level;\n\t if
\n\t (it.util.schemaHasRules($schema, it.RULES.all)) {\n\t $it.schema = $schema;\n\t $it.schemaPath =
\n\t $schemaPath;\n\t $it.errSchemaPath = $errSchemaPath;\n\t out += ' var ' + $errs + ' = errors;';\n\t var
\n\t $wasComposite = it.compositeRule;\n\t it.compositeRule = true;\n\t $it.createErrors =
\n\t false;\n\t var $allErrorsOption;\n\t if ($it.opts.allErrors) {\n\t $allErrorsOption = $it.opts.allErrors;\n\t
\n\t $it.opts.allErrors = false;\n\t } out += ' + it.validate($it) + '';\n\t $it.createErrors = true;\n\t if
\n\t ($allErrorsOption) $it.opts.allErrors = $allErrorsOption;\n\t it.compositeRule = $it.compositeRule =
\n\t $wasComposite;\n\t out += ' if ( ' + $nextValid + ' ) {';\n\t var $$outStack = $$outStack || [];\n\t
\n\t $$outStack.push(out);\n\t out = ';\n\t /* istanbul ignore else */\n\t if (it.createErrors

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$keyword;\n\t var $breakOnError = !it.opts.allErrors;\n\t var $data = 'data' + ($dataLvl || '');\n\t var $isData =
it.opts.$data && $schema && $schema.$data,\n\t $schemaValue;\n\t if ($isData) {\n\t out += ' var schema' +
$lvl + ' = ' + it.util.getData($schema.$data, $dataLvl, it.dataPathArr) + ';'\n\t $schemaValue = 'schema' + $lvl;\n\t
} else {\n\t $schemaValue = $schema;\n\t }\n\t var $regex
= $isData ? (new RegExp(' + $schemaValue + ')) : it.usePattern($schema);\n\t out += 'if (';\n\t if ($isData) {\n\t
out += ' (' + $schemaValue + ' !== undefined && typeof ' + $schemaValue + ' !== \'string\') || '\n\t }\n\t out += ' '!
+ $regex + '.test(' + $data + ') ) { '\n\t var $$outStack = $$outStack || [];\n\t $$outStack.push(out);\n\t out = ''; /*
istanbul ignore else */\n\t if (it.createErrors !== false) {\n\t out += ' keyword: \'' + 'pattern' + '\', dataPath:
(dataPath || '\') + ' + it.errorPath + ', schemaPath: ' + it.util.toQuotedString($errSchemaPath) + ', params: {
pattern: '\n\t if ($isData) {\n\t out += " + $schemaValue;\n\t } else {\n\t out += " +
it.util.toQuotedString($schema);\n\t }\n\t out += ' ';'\n\t if (it.opts.messages !== false) {\n\t out += ',
message: \'should match pattern \'';\n\t if ($isData) {\n\t out += '\\\' + ' + $schemaValue + ' + '\\';'\n\t } else
{\n\t out
+= " + it.util.escapeQuotes($schema);\n\t }\n\t out += '\\\'';'\n\t }\n\t if (it.opts.verbose) {\n\t out += ',
schema: '\n\t if ($isData) {\n\t out += 'validate.schema' + $schemaPath;\n\t } else {\n\t out += " +
it.util.toQuotedString($schema);\n\t }\n\t out += ', parentSchema: validate.schema' + it.schemaPath + ',
data: ' + $data + ';\n\t }\n\t out += ' }';'\n\t } else {\n\t out += ' {';'\n\t }\n\t var __err = out;\n\t out =
$$outStack.pop();\n\t if (!it.compositeRule && $breakOnError) {\n\t /* istanbul ignore if */\n\t if (it.async) {\n\t
out += ' throw new ValidationError([' + __err + ']);'\n\t } else {\n\t out += ' validate.errors = [' + __err + '];
return false;'\n\t }\n\t } else {\n\t out += ' var err = ' + __err + '; if (vErrors === null) vErrors = [err]; else
vErrors.push(err); errors++;'\n\t }\n\t out += ' }';'\n\t if ($breakOnError) {\n\t out += ' else
{';'\n\t }\n\t return out;\n\t};\n\n/**/ },\n/* 58 */\nfunction(module, exports) {\n\n'use strict';\n\n\tvar
_typeof = typeof Symbol === "function" && typeof Symbol.iterator === "symbol" ? function (obj) { return
typeof obj; } : function (obj) { return obj && typeof Symbol === "function" && obj.constructor === Symbol &&
obj !== Symbol.prototype ? "symbol" : typeof obj; };\n\n\tmodule.exports = function generate_properties(it,
$keyword, $ruleType) {\n\t var out = '';\n\t var $lvl = it.level;\n\t var $dataLvl = it.dataLevel;\n\t var $schema =
it.schema[$keyword];\n\t var $schemaPath = it.schemaPath + it.util.getProperty($keyword);\n\t var
$errSchemaPath = it.errSchemaPath + '/' + $keyword;\n\t var $breakOnError = !it.opts.allErrors;\n\t var $data =
'data' + ($dataLvl || '');\n\t var $valid = 'valid' + $lvl;\n\t var $errs = 'errs_' + $lvl;\n\t var $it = it.util.copy(it);\n\t
var $closingBraces = '';\n\t $it.level++; \n\t var $nextValid = 'valid' +
$it.level;\n\t var $key = 'key' + $lvl, $idx = 'idx' + $lvl, $dataNxt = $it.dataLevel = it.dataLevel + 1, \n\t
$nextData = 'data' + $dataNxt, $dataProperties = 'dataProperties' + $lvl;\n\t var $schemaKeys =
Object.keys($schema || {}),\n\t $pProperties = it.schema.patternProperties || {},\n\t $pPropertyKeys =
Object.keys($pProperties),\n\t $aProperties = it.schema.additionalProperties,\n\t $someProperties =
$schemaKeys.length || $pPropertyKeys.length,\n\t $noAdditional = $aProperties === false,\n\t $additionalIsSchema = (typeof $aProperties === 'undefined' ? 'undefined' : _typeof($aProperties)) === 'object' &&
Object.keys($aProperties).length,\n\t $removeAdditional = it.opts.removeAdditional,\n\t $checkAdditional =
$noAdditional || $additionalIsSchema || $removeAdditional,\n\t $ownProperties = it.opts.ownProperties,\n\t
$currentBaseId = it.baseId;\n\t var $required = it.schema.required;\n\t if ($required
&& !(it.opts.v5 && $required.$data) && $required.length < it.opts.loopRequired) var $requiredHash =
it.util.toHash($required);\n\t if (it.opts.patternGroups) {\n\t var $pgProperties = it.schema.patternGroups || {},\n\t
$pgPropertyKeys = Object.keys($pgProperties);\n\t }\n\t out += 'var ' + $errs + ' = errors;var ' + $nextValid + ' =
true;'\n\t if ($ownProperties) {\n\t out += ' var ' + $dataProperties + ' = undefined;'\n\t }\n\t if
($checkAdditional) {\n\t if ($ownProperties) {\n\t out += ' ' + $dataProperties + ' = ' + $dataProperties + ' ||
Object.keys(' + $data + '); for (var ' + $idx + '=0; ' + $idx + '<' + $dataProperties + '.length; ' + $idx + '++) { var ' +
$key + ' = ' + $dataProperties + '[' + $idx + '];'\n\t } else {\n\t out += ' for (var ' + $key + ' in ' + $data + ') {\n\t
';'\n\t }\n\t if ($someProperties) {\n\t out += ' var isAdditional' + $lvl + ' = !(false';'\n\t if
($schemaKeys.length) {\n\t if ($schemaKeys.length

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it.errorPath = $currentErrorPath;\n\t }\n\t if ($someProperties) {\n\t out += ' '; \n\t
}\n\t out += ' }';\n\t if ($breakOnError) {\n\t out += ' if (' + $nextValid + ') {';\n\t $closingBraces +=
'}';\n\t }\n\t }\n\t var $useDefaults = it.opts.useDefaults && !it.compositeRule;\n\t if ($schemaKeys.length) {\n\t
var arr4 = $schemaKeys;\n\t if (arr4) {\n\t var $propertyKey,\n\t i4 = -1,\n\t l4 = arr4.length - 1;\n\t
while (i4 < l4) {\n\t $propertyKey = arr4[i4 += 1];\n\t var $sch = $schema[$propertyKey];\n\t if
(it.util.schemaHasRules($sch, it.RULES.all)) {\n\t var $prop = it.util.getProperty($propertyKey);\n\t
$passData = $data + $prop;\n\t $hasDefault = $useDefaults && $sch.default !== undefined;\n\t
$it.schema = $sch;\n\t $it.schemaPath = $schemaPath + $prop;\n\t $it.errSchemaPath = $errSchemaPath
+ '/' + it.util.escapeFragment($propertyKey);\n\t $it.errorPath = it.util.getPath(it.errorPath, $propertyKey,
it.opts.jsonPointers);\n\t
$it.dataPathArr[$dataNxt] = it.util.toQuotedString($propertyKey);\n\t var $code = it.validate($it);\n\t
$it.baseId = $currentBaseId;\n\t if (it.util.varOccurrences($code, $nextData) < 2) {\n\t $code =
it.util.varReplace($code, $nextData, $passData);\n\t var $useData = $passData;\n\t } else {\n\t
var $useData = $nextData;\n\t out += ' var ' + $nextData + ' = ' + $passData + ' '; }\n\t if
($hasDefault) {\n\t out += ' + $code + ' '; }\n\t } else {\n\t if ($requiredHash &&
$requiredHash[$propertyKey]) {\n\t out += ' if (' + $useData + ' === undefined';\n\t if
($ownProperties) {\n\t out += ' || ! Object.prototype.hasOwnProperty.call(' + $data + ', \'' +
it.util.escapeQuotes($propertyKey) + '\')';\n\t }\n\t out += ') { ' + $nextValid + ' = false;';\n\t
var $currentErrorPath
= it.errorPath,\n\t $currErrSchemaPath = $errSchemaPath,\n\t $missingProperty =
it.util.escapeQuotes($propertyKey);\n\t if (it.opts._errorDataPathProperty) {\n\t it.errorPath =
it.util.getPath($currentErrorPath, $propertyKey, it.opts.jsonPointers);\n\t }\n\t $errSchemaPath =
it.errSchemaPath + '/required';\n\t var $$outStack = $$outStack || [];\n\t $$outStack.push(out);\n\t
out = ''; /* istanbul ignore else */\n\t if (it.createErrors !== false) {\n\t out += ' keyword: \'' +
'required' + '\', dataPath: (' + $dataPath + ' + ' + it.errorPath + ', schemaPath: ' +
it.util.toQuotedString($errSchemaPath) + ', params: { missingProperty: \'' + $missingProperty + '\'}';\n\t
if (it.opts.messages !== false) {\n\t out += ', message: \'';\n\t if
(it.opts._errorDataPathProperty)
{\n\t out += 'is a required property';\n\t } else {\n\t out += 'should have required
property \'' + $missingProperty + '\'';\n\t }\n\t out += '\';\n\t }\n\t if
(it.opts.verbose) {\n\t out += ', schema: validate.schema' + $schemaPath + ', parentSchema:
validate.schema' + it.schemaPath + ', data: ' + $data + '';\n\t }\n\t out += ' '; }\n\t } else
{\n\t out += ' }';\n\t }\n\t var __err = out;\n\t out = $$outStack.pop();\n\t
if (!it.compositeRule && $breakOnError) {\n\t /* istanbul ignore if */\n\t if (it.async) {\n\t
out += ' throw new ValidationError([' + __err + ']);\n\t } else {\n\t out += ' validate.errors =
[' + __err + ']; return false;';\n\t }\n\t }\n\t }\n\t } else {\n\t out += ' var err = ' + __err + '
; if (vErrors === null) vErrors = [err];
else vErrors.push(err); errors++;';\n\t }\n\t $errSchemaPath = $currErrSchemaPath;\n\t
it.errorPath = $currentErrorPath;\n\t out += ' } else {';\n\t } else {\n\t if ($breakOnError)
{\n\t out += ' if (' + $useData + ' === undefined';\n\t if ($ownProperties) {\n\t out += '
|| ! Object.prototype.hasOwnProperty.call(' + $data + ', \'' + it.util.escapeQuotes($propertyKey) + '\')';\n\t
}\n\t out += ') { ' + $nextValid + ' = true; } else {';\n\t } else {\n\t out += ' if (' + $useData
+ ' !== undefined';\n\t if ($ownProperties) {\n\t out += ' &&
Object.prototype.hasOwnProperty.call(' + $data + ', \'' + it.util.escapeQuotes($propertyKey)
+ '\')';\n\t }\n\t out += ') {';\n\t }\n\t }\n\t }\n\t if ($breakOnError) {\n\t out += ' if (' + $nextValid + ') {';\n\t $closingBraces +=
'}';\n\t }\n\t }\n\t }\n\t }\n\t if ($pPropertyKeys.length) {\n\t var arr5 = $pPropertyKeys;\n\t if (arr5)
{\n\t var $pProperty,\n\t i5 = -1,\n\t l5 = arr5.length - 1;\n\t while (i5 < l5) {\n\t $pProperty =

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arr5[i5 += 1];\n\t    var $sch = $pProperties[$pProperty];\n\t    if (it.util.schemaHasRules($sch, it.RULES.all))
{\n\t    $it.schema = $sch;\n\t    $it.schemaPath = it.schemaPath + '.patternProperties' +
it.util.getProperty($pProperty);\n\t    $it.errSchemaPath = it.errSchemaPath + '/patternProperties/' +
it.util.escapeFragment($pProperty);\n\t    if ($ownProperties) {\n\t    out += ' ' + $dataProperties
+ ' = ' + $dataProperties + ' || Object.keys(' + $data + '); for (var ' + $idx + '=0; ' + $idx + '<' + $dataProperties +
'.length; ' + $idx + '++) { var ' + $key + ' = ' + $dataProperties + '[' + $idx + '];';\n\t    } else {\n\t    out += '
for (var ' + $key + ' in ' + $data + ') {';\n\t    }\n\t    out += ' if (' + it.usePattern($pProperty) + '.test(' + $key +
')) {';\n\t    $it.errorPath = it.util.getPathExpr(it.errorPath, $key, it.opts.jsonPointers);\n\t    var $passData =
$data + '[' + $key + '];\n\t    $it.dataPathArr[$dataNxt] = $key;\n\t    var $code = it.validate($it);\n\t    $it.baseId = $currentBaseId;\n\t    if (it.util.varOccurrences($code, $nextData) < 2) {\n\t    out += ' ' +
it.util.varReplace($code, $nextData, $passData) + ' ';;\n\t    } else {\n\t    out += ' var ' + $nextData + ' = ' +
$passData + ' ; ' + $code + ' ';;\n\t    }\n\t    if ($breakOnError) {\n\t    out += ' if (! ' + $nextValid + ') break;';;\n\t    }\n\t    out += ' }';;\n\t    if ($breakOnError) {\n\t    out
+= ' else ' + $nextValid + ' = true;';;\n\t    }\n\t    out += ' ';;\n\t    if ($breakOnError) {\n\t    out
+= ' if (' + $nextValid + ') {';;\n\t    $closingBraces += ' ';;\n\t    }\n\t    }\n\t    }\n\t    }\n\t    if
(it.opts.patternGroups && $pgPropertyKeys.length) {\n\t    var arr6 = $pgPropertyKeys;\n\t    if (arr6) {\n\t    var
$pgProperty,\n\t    i6 = -1,\n\t    l6 = arr6.length - 1;\n\t    while (i6 < l6) {\n\t    $pgProperty = arr6[i6 +=
1];\n\t    var $pgSchema = $pgProperties[$pgProperty],\n\t    $sch = $pgSchema.schema;\n\t    if
(it.util.schemaHasRules($sch, it.RULES.all)) {\n\t    $it.schema = $sch;\n\t    $it.schemaPath = it.schemaPath
+ '.patternGroups' + it.util.getProperty($pgProperty) + '.schema';\n\t    $it.errSchemaPath
= it.errSchemaPath + '/patternGroups/' + it.util.escapeFragment($pgProperty) + '/schema';\n\t    out += ' var
pgPropCount' + $lvl + ' = 0;';;\n\t    if ($ownProperties) {\n\t    out += ' ' + $dataProperties + ' = ' +
$dataProperties + ' || Object.keys(' + $data + '); for (var ' + $idx + '=0; ' + $idx + '<' + $dataProperties + '.length; ' +
$idx + '++) { var ' + $key + ' = ' + $dataProperties + '[' + $idx + '];';\n\t    } else {\n\t    out += ' for (var ' +
$key + ' in ' + $data + ') {';\n\t    }\n\t    out += ' if (' + it.usePattern($pgProperty) + '.test(' + $key + ')) {
pgPropCount' + $lvl + '++;;\n\t    $it.errorPath = it.util.getPathExpr(it.errorPath, $key, it.opts.jsonPointers);\n\t    var
$passData = $data + '[' + $key + '];\n\t    $it.dataPathArr[$dataNxt] = $key;\n\t    var $code =
it.validate($it);\n\t    $it.baseId = $currentBaseId;\n\t    if (it.util.varOccurrences($code, $nextData) <
2) {\n\t    out += ' ' + it.util.varReplace($code, $nextData, $passData) + ' ';;\n\t    } else {\n\t    out += '
var ' + $nextData + ' = ' + $passData + ' ; ' + $code + ' ';;\n\t    }\n\t    if ($breakOnError) {\n\t    out += ' if
(' + $nextValid + ') break;';;\n\t    }\n\t    out += ' }';;\n\t    if ($breakOnError) {\n\t    out += ' else ' +
$nextValid + ' = true;';;\n\t    }\n\t    out += ' ';;\n\t    if ($breakOnError) {\n\t    out += ' if (' +
$nextValid + ') {';\n\t    $closingBraces += ' ';;\n\t    }\n\t    var $pgMin = $pgSchema.minimum,\n\t    $pgMax = $pgSchema.maximum;\n\t    if ($pgMin !== undefined || $pgMax !== undefined) {\n\t    out
+= ' var ' + $valid + ' = true;';\n\t    var $currErrSchemaPath = $errSchemaPath;\n\t    if ($pgMin !==
undefined) {\n\t    var $limit = $pgMin,\n\t    $reason = 'minimum',\n\t    $moreOrLess = 'less';\n\t    out += ' ' + $valid + ' = pgPropCount' + $lvl + ' >= ' + $pgMin + ' ';;\n\t    $errSchemaPath = it.errSchemaPath + '/patternGroups/minimum';\n\t    out += ' if (! ' + $valid + ') {';\n\t    var $$outStack = $$outStack || [];\n\t    $$outStack.push(out);\n\t    out = "/* istanbul ignore else */\n\t    if (it.createErrors !== false) {\n\t    out += ' { keyword: \'' + 'patternGroups' + '\', dataPath: (dataPath || \'' + it.errorPath + '\', schemaPath: ' + it.util.toQuotedString($errSchemaPath) + '\', params: { reason: \'' + $reason + '\', limit: ' + $limit + ', pattern: \'' + it.util.escapeQuotes($pgProperty) + '\'' }';;\n\t    if (it.opts.messages !== false) {\n\t    out += ' , message: \'' + 'should NOT have ' + $moreOrLess + ' than ' + $limit + ' properties matching pattern \'' + it.util.escapeQuotes($pgProperty) + '\'' + '\';\n\t    }\n\t    if (it.opts.verbose) {\n\t    out += ' , schema: validate.schema' + $schemaPath + ', parentSchema: validate.schema' + it.schemaPath + ', data: ' + $data + ' ';;\n\t    }\n\t    out += ' }';;\n\t    } else {\n\t    out += ' }';;\n\t    }\n\t    var __err = out;\n\t    out =
$$outStack.pop();\n\t    if (!it.compositeRule && $breakOnError) {\n\t    /* istanbul ignore if */\n\t    }

```







```

+= ' throw new ValidationError([' + __err + ']);';\n\t      } else {\n\t          out += ' validate.errors = [' + __err + '];
return false;';\n\t      }\n\t      } else
{\n\t          out += ' var err = ' + __err + '; if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++;
';\n\t      }\n\t      out += ' } else {';\n\t      } else {\n\t          out += ' if (';\n\t          var arr2 = $required;\n\t          if
(arr2) {\n\t              var $propertyKey,\n\t                  $i = -1,\n\t                  $l2 = arr2.length - 1;\n\t                  while ($i < $l2) {\n\t
\t                      $propertyKey = arr2[$i + 1];\n\t                      if ($i) {\n\t                          out += ' ||';\n\t
\t                          }\n\t                          var $prop =
it.util.getProperty($propertyKey),\n\t                              $useData = $data + $prop;\n\t                              out += ' ( (' + $useData + ' ===
undefined';\n\t                              if ($ownProperties) {\n\t                                  out += ' || ! Object.prototype.hasOwnProperty.call(' + $data
+ ', \'' + it.util.escapeQuotes($propertyKey) + '\')';\n\t                                  }\n\t                                  out += ') && (missing' + $lvl + ' = ' +
it.util.toQuotedString(it.opts.jsonPointers ? $propertyKey : $prop)
+ ') )';\n\t                                  }\n\t                                  }\n\t                                  out += ' }';\n\t
\t                                  var $propertyPath = 'missing' + $lvl,\n\t
\t                                  $missingProperty = '\\ ' + ' + $propertyPath + ' + \\';\n\t                                  if (it.opts._errorDataPathProperty) {\n\t
\t                                      it.errorPath
= it.opts.jsonPointers ? it.util.getPathExpr($currentErrorPath, $propertyPath, true) : $currentErrorPath + ' + ' +
$propertyPath;\n\t                                  }\n\t                                  var $$outStack = $$outStack || [];\n\t
\t                                  $$outStack.push(out);\n\t                                  out = '';\n\t
\t                                  /*
istanbul ignore else */\n\t                                  if (it.createErrors !== false) {\n\t                                      out += ' { keyword: \'' + 'required' + '\',
dataPath: (dataPath || \\') + ' + it.errorPath + ', schemaPath: ' + it.util.toQuotedString($errSchemaPath) + ', params:
{ missingProperty: \'' + $missingProperty + '\\ }';\n\t                                      if (it.opts.messages !== false) {\n\t
\t                                          out += ',
message: \\';\n\t                                          if (it.opts._errorDataPathProperty) {\n\t
\t                                              out += 'is a required property';\n\t
\t                                          } else {\n\t
\t                                              out += 'should have required property \\\'\'\'\' + $missingProperty + '\\'\'\'\'';\n\t
\t                                          }\n\t
\t                                          }\n\t
\t                                          if (it.opts.verbose) {\n\t
\t                                              out += ', schema: validate.schema' +
$schemaPath + ', parentSchema: validate.schema' + it.schemaPath + ', data: ' + $data + '';\n\t
\t                                          }\n\t
\t                                          out
+= ' }';\n\t                                      } else {\n\t
\t                                          out += ' { }';\n\t
\t                                          }\n\t
\t                                          var __err = out;\n\t
\t                                          out = $$outStack.pop();\n\t
\t                                          if (!it.compositeRule && $breakOnError) {\n\t
\t                                              /* istanbul ignore if */\n\t
\t                                              if (it.async) {\n\t
\t                                                  out
+= ' throw new ValidationError([' + __err + ']);';\n\t
\t                                              } else {\n\t
\t                                                  out += ' validate.errors = [' + __err + '];
return false;';\n\t
\t                                              }\n\t
\t                                              } else {\n\t
\t                                                  out += ' var err = ' + __err + '; if (vErrors === null) vErrors =
[err]; else vErrors.push(err); errors++;';\n\t
\t                                              }\n\t
\t                                              }\n\t
\t                                              out += ' } else {';\n\t
\t                                              }\n\t
\t                                              } else {\n\t
\t                                                  if ($loopRequired) {\n\t
\t                                                      if (!$isData) {\n\t
\t                                                          out += ' var '
+ $vSchema + ' = validate.schema' + $schemaPath + '';\n\t
\t                                                      }\n\t
\t                                                      var $i = 'i' + $lvl,\n\t
\t                                                          $propertyPath
= 'schema' + $lvl + '[' + $i + ']',\n\t
\t                                                          $missingProperty = '\\ ' + ' + $propertyPath + ' + \\';\n\t
\t                                                          if
(it.opts._errorDataPathProperty) {\n\t
\t                                                              it.errorPath = it.util.getPathExpr($currentErrorPath, $propertyPath,
it.opts.jsonPointers);\n\t
\t                                                          }\n\t
\t                                                          if ($isData) {\n\t
\t                                                              out += ' if (' + $vSchema + ' && !Array.isArray(' +
$vSchema + ')) { var err = ';\n\t
\t                                                              /* istanbul ignore else */\n\t
\t                                                              if (it.createErrors !== false) {\n\t
\t                                                                  out += ' {
keyword: \'' + 'required' + '\', dataPath: (dataPath || \\') + ' + it.errorPath + ', schemaPath: ' +
it.util.toQuotedString($errSchemaPath) + ', params: { missingProperty: \'' + $missingProperty + '\\ }';\n\t
\t                                                                  if (it.opts.messages !== false) {\n\t
\t                                                                      out += ', message: \\';\n\t
\t                                                                      if (it.opts._errorDataPathProperty)
{\n\t
\t                                                                          out += 'is a required property';\n\t
\t                                                                      } else {\n\t
\t                                                                          out += 'should have required property
\\\'\'\'\' + $missingProperty + '\\'\'\'\'';\n\t
\t                                                                      }\n\t
\t                                                                      }\n\t
\t                                                                      if (it.opts.verbose)
{\n\t
\t                                                                          out += ', schema: validate.schema' + $schemaPath + ', parentSchema: validate.schema' +
it.schemaPath + ', data: ' + $data + '';\n\t
\t                                                                      }\n\t
\t                                                                      out
+= ' }';\n\t
\t                                                                  } else {\n\t
\t                                                                      out += ' { }';\n\t
\t                                                                  }\n\t
\t                                                                  }\n\t
\t                                                                  out += ';\n\t
\t                                                                  if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++; } else if (' +
$vSchema + ' !== undefined) {';\n\t
\t                                                                  }\n\t
\t                                                                  }\n\t
\t                                                                  out += ' for (var ' + $i + ' = 0; ' + $i + ' < ' + $vSchema + '.length; '
+ $i + '++) { if (' + $data + '[' + $vSchema + '[' + $i + ']] === undefined';\n\t
\t                                                                  }\n\t
\t                                                                  }\n\t
\t                                                                  if ($ownProperties) {\n\t
\t                                                                      out += ' || ! Object.prototype.hasOwnProperty.call(' + $data + ', ' + $vSchema +
 '[' + $i + '])';\n\t
\t                                                                  }\n\t
\t                                                                  }\n\t
\t                                                                  out += ') { var err = ';\n\t
\t                                                                  /* istanbul ignore else */\n\t
\t                                                                  if (it.createErrors !== false)
{\n\t
\t                                                                      out += ' { keyword: \'' + 'required' + '\', dataPath: (dataPath || \\') + ' + it.errorPath + ', schemaPath: ' +
it.util.toQuotedString($errSchemaPath) + ', params: { missingProperty: \'' + $missingProperty + '\\ }';\n\t
\t                                                                      if (it.opts.messages !== false) {\n\t
\t                                                                          out += ', message: \\';\n\t
\t                                                                          if (it.opts._errorDataPathProperty) {\n\t
\t                                                                              out += 'is a required property';\n\t
\t                                                                          } else {\n\t
\t                                                                              out += 'should have required property \\\'\'\'\' +

```



```

__err + ' '; if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++; '\n\t } \n\t out += ' }';\n\t if
($breakOnError) {\n\t out += ' else {';\n\t } else {\n\t if ($breakOnError) {\n\t out += ' if (true) {';\n\t } \n\t } \n\t } \n\t } \n\t return out;\n\t};\n\n/****/ },\n/* 62 */\n/****/ function(module, exports) {\n\n\t'use strict';\n\t\tvar
KEYWORDS = ['multipleOf', 'maximum', 'exclusiveMaximum', 'minimum', 'exclusiveMinimum', 'maxLength',
'minLength', 'pattern', 'additionalItems', 'maxItems', 'minItems', 'uniqueItems', 'maxProperties', 'minProperties',
'required',
'additionalProperties', 'enum', 'format', 'const'];\n\t\tmodule.exports = function (metaSchema,
keywordsJsonPointers) {\n\t for (var i = 0; i < keywordsJsonPointers.length; i++) {\n\t metaSchema =
JSON.parse(JSON.stringify(metaSchema));\n\t var segments = keywordsJsonPointers[i].split('/');\n\t var
keywords = metaSchema;\n\t var j;\n\t for (j = 1; j < segments.length; j++) {\n\t keywords =
keywords[segments[j]];\n\t } for (j = 0; j < KEYWORDS.length; j++) {\n\t var key = KEYWORDS[j];\n\t
var schema = keywords[key];\n\t if (schema) {\n\t keywords[key] = {\n\t anyOf: [schema, { $ref:
'https://raw.githubusercontent.com/epoberezkin/ajv/master/lib/refs/$data.json#' } ]\n\t }; \n\t } \n\t } \n\t }
}\n\t\t return metaSchema;\n\t};\n\n/****/ },\n/* 63 */\n/****/ function(module, exports) {\n\n\t'use strict';\n\t\tvar
META_SCHEMA_ID = 'http://json-schema.org/draft-06/schema';\n\t\tmodule.exports = function (ajv) {\n\t var
defaultMeta
= ajv._opts.defaultMeta;\n\t var metaSchemaRef = typeof defaultMeta == 'string' ? { $ref: defaultMeta } :
ajv.getSchema(META_SCHEMA_ID) ? { $ref: META_SCHEMA_ID } : {};\n\t\tajv.addKeyword('patternGroups', {\n\t // implemented in properties.jst\n\t metaSchema: {\n\t type: 'object',\n\t
additionalProperties: {\n\t type: 'object',\n\t required: ['schema'],\n\t properties: {\n\t maximum:
{\n\t type: 'integer',\n\t minimum: 0\n\t },\n\t minimum: {\n\t type: 'integer',\n\t
minimum: 0\n\t },\n\t schema: metaSchemaRef\n\t },\n\t additionalProperties: false\n\t }\n\t }
};\n\t ajv.RULES.all.properties.implements.push('patternGroups');\n\t};\n\n/****/ },\n/* 64 */\n/****/
function(module, exports, __webpack_require__) {\n\n\t'use strict';\n\t\tvar MissingRefError =
__webpack_require__(30).MissingRef;\n\t\tmodule.exports = compileAsync;\n\t\t\t\n\t * Creates validating function for passed schema with asynchronous loading of missing schemas.\n\t * `loadSchema`
option should be a function that accepts schema uri and returns promise that resolves with the schema.\n\t * @this
Ajv\n\t * @param {Object} schema schema object\n\t * @param {Boolean} meta optional true to compile meta-
schema; this parameter can be skipped\n\t * @param {Function} callback an optional node-style callback, it is
called with 2 parameters: error (or null) and validating function.\n\t * @return {Promise} promise that resolves with
a validating function.\n\t */\n\tfunction compileAsync(schema, meta, callback) {\n\t /* eslint no-shadow: 0 */\n\t /*
global Promise */\n\t /* jshint validthis: true */\n\t var self = this;\n\t if (typeof this._opts.loadSchema != 'function')
throw new Error('options.loadSchema should be a function');\n\t if (typeof meta == 'function') {\n\t callback =
meta;\n\t meta = undefined;\n\t }\n\t\tvar p = loadMetaSchemaOf(schema).then(function () {\n\t var schemaObj = self._addSchema(schema,
undefined, meta);\n\t return schemaObj.validate || _compileAsync(schemaObj);\n\t });\n\t\tif (callback) {\n\t
p.then(function (v) {\n\t callback(null, v);\n\t }, callback);\n\t }\n\t\treturn p;\n\t}\n\t\tfunction
loadMetaSchemaOf(sch) {\n\t var $schema = sch.$schema;\n\t return $schema && !self.getSchema($schema) ?
compileAsync.call(self, { $ref: $schema }, true) : Promise.resolve();\n\t }\n\t\tfunction
_compileAsync(schemaObj) {\n\t try {\n\t return self._compile(schemaObj);\n\t } catch (e) {\n\t if (e
instanceof MissingRefError) return loadMissingSchema(e);\n\t throw e;\n\t }\n\t}\n\t\tfunction
loadMissingSchema(e) {\n\t var ref = e.missingSchema;\n\t if (added(ref)) throw new Error('Schema ' + ref +
' is loaded but ' + e.missingRef + ' cannot be resolved');\n\t var schemaPromise =
self._loadingSchemas[ref];\n\t\tif (!schemaPromise) {\n\t schemaPromise = self._loadingSchemas[ref] = self._opts.loadSchema(ref);\n\t
schemaPromise.then(removePromise, removePromise);\n\t }\n\t\treturn schemaPromise.then(function (sch)
{\n\t if (!added(ref)) {\n\t return loadMetaSchemaOf(sch).then(function () {\n\t if (!added(ref))
self.addSchema(sch, ref, undefined, meta);\n\t });\n\t }\n\t }).then(function () {\n\t return

```

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_compileAsync(schemaObj);
    });
    function removePromise() {
        delete
        self._loadingSchemas[ref];
    }
    function added(ref) {
        return self._refs[ref] ||
        self._schemas[ref];
    }
    function useStrict() {
        use strict;
    }
    function IDENTIFIER = /^[a-z_$][a-z0-9_$-]*$/i;
    function customRuleCode = __webpack_require__(66);
    module.exports = {
        add: addKeyword,
        get:
        getKeyword,
        remove: removeKeyword;
    };
    function Define custom keyword
    * @this Ajv
    * @param {String} keyword custom keyword, should be unique (including different from all standard, custom and
    macro keywords).
    * @param {Object} definition keyword definition object with properties `type` (type(s) which
    the keyword applies to), `validate` or `compile`.
    function addKeyword(keyword, definition) {
        /* jshint
        validthis: true */
        /* eslint no-shadow: 0 */
        var RULES = this.RULES;
        if
        (RULES.keywords[keyword]) throw new Error('Keyword ' + keyword + ' is already defined');
        if
        (!IDENTIFIER.test(keyword)) throw new Error('Keyword ' + keyword + ' is not a valid identifier');
        if
        (definition) {
            if (definition.macro && definition.valid !== undefined) throw new Error('"valid" option cannot
            be used with macro keywords');
            var dataType = definition.type;
            if (Array.isArray(dataType)) {
                var i,
                len = dataType.length;
                for (i = 0; i < len; i++) {
                    checkDataType(dataType[i]);
                }
            }
            for (i = 0; i < len; i++) {
                _addRule(keyword, dataType[i], definition);
            }
        } else {
            if (dataType)
            checkDataType(dataType);
            _addRule(keyword, dataType, definition);
        }
        var $data =
        definition.$data === true && this._opts.$data;
        if ($data && !definition.validate) throw new Error('$data
        support: "validate" function is not defined');
        var metaSchema = definition.metaSchema;
        if
        (metaSchema) {
            if ($data) {
                metaSchema = {
                    anyOf: [metaSchema, {
                        $ref:
                        'https://raw.githubusercontent.com/epoberezkin/ajv/master/lib/refs/$data.json#'
                    }
                ]
            };
        }
        definition.validateSchema = this.compile(metaSchema, true);
        RULES.keywords[keyword] =
        RULES.all[keyword] = true;
        function _addRule(keyword, dataType, definition) {
            var ruleGroup;
            for (var i = 0; i < RULES.length; i++) {
                var rg = RULES[i];
                if (rg.type ===
                dataType) {
                    ruleGroup = rg;
                    break;
                }
            }
            if (!ruleGroup) {
                ruleGroup = {
                    type: dataType,
                    rules: []
                };
                RULES.push(ruleGroup);
            }
            var rule = {
                keyword:
                keyword,
                definition: definition,
                custom: true,
                code: customRuleCode,
                implements:
                definition.implements
            };
            ruleGroup.rules.push(rule);
            RULES.custom[keyword] = rule;
        }
        function checkDataType(dataType) {
            if (!RULES.types[dataType]) throw new Error('Unknown type ' +
            dataType);
        }
        function Get keyword
        * @this Ajv
        * @param {String} keyword pre-defined or
        custom keyword.
        * @return {Object|Boolean} custom keyword definition, `true` if it is a predefined keyword,
        `false` otherwise.
        function getKeyword(keyword) {
            /* jshint
            validthis: true */
            var rule = this.RULES.custom[keyword];
            return rule ? rule.definition :
            this.RULES.keywords[keyword] || false;
        }
        function Remove keyword
        * @this Ajv
        * @param
        {String} keyword pre-defined or custom keyword.
        function removeKeyword(keyword) {
            /* jshint
            validthis: true */
            var RULES = this.RULES;
            delete RULES.keywords[keyword];
            delete
            RULES.all[keyword];
            delete RULES.custom[keyword];
            for (var i = 0; i < RULES.length; i++) {
                var
                rules = RULES[i].rules;
                for (var j = 0; j < rules.length; j++) {
                    if (rules[j].keyword === keyword) {
                        rules.splice(j, 1);
                        break;
                    }
                }
            }
        }
        function generate_custom(it, $keyword, $ruleType) {
            var out = '';
            var $lvl = it.level;
            var $dataLvl = it.dataLevel;
            var $schema = it.schema[$keyword];
            var $schemaPath = it.schemaPath + it.util.getProperty($keyword);
            var $errSchemaPath = it.errSchemaPath + '/'
            + $keyword;
            var $breakOnError = !it.opts.allErrors;
            var $errorKeyword;
            var $data = 'data' + ($dataLvl ||
            '');
            var $valid = 'valid' + $lvl;
            var $errs = 'errs_' + $lvl;
            var $isData = it.opts.$data && $schema &&
            $schema.$data;
            var $schemaValue;
            if ($isData) {
                out += ' var schema' + $lvl + ' = ' +
                it.util.getData($schema.$data, $dataLvl, it.dataPathArr) + ';';
            } else {
                $schemaValue = $schema;
            }
            var $rule = this,
            $definition = 'definition' + $lvl,
            $rDef =

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$rule.definition,\n\t $closingBraces = ";\n\t var $compile, $inline, $macro, $ruleValidate, $validateCode;\n\t if
($isData && $rDef.$data) {\n\t $validateCode = 'keywordValidate' + $lvl;\n\t var $validateSchema =
$rDef.validateSchema;\n\t out += ' var ' + $definition + ' = RULES.custom[\'\'
+ $keyword + '\'].definition; var ' + $validateCode + ' = ' + $definition + '.validate;';\n\t } else {\n\t $ruleValidate
= it.useCustomRule($rule, $schema, it.schema, it);\n\t if (!$ruleValidate) return;\n\t $schemaValue =
'validate.schema' + $schemaPath;\n\t $validateCode = $ruleValidate.code;\n\t $compile = $rDef.compile;\n\t
$inline = $rDef.inline;\n\t $macro = $rDef.macro;\n\t }\n\t var $ruleErrs = $validateCode + '.errors',\n\t $i = 'i'
+ $lvl,\n\t $ruleErr = 'ruleErr' + $lvl,\n\t $asyncKeyword = $rDef.async;\n\t if ($asyncKeyword && !it.async)
throw new Error('async keyword in sync schema');\n\t if (!$inline || $macro) {\n\t out += " + $ruleErrs + ' =
null;';\n\t }\n\t out += 'var ' + $errs + ' = errors;var ' + $valid + ';\n\t if ($isData && $rDef.$data) {\n\t
$closingBraces += ';\n\t out += ' ( ' + $schemaValue + ' === undefined) { ' + $valid + ' = true; } else { '\n\t if
($validateSchema) {\n\t
$closingBraces += '};\n\t out += ' ' + $valid + ' = ' + $definition + '.validateSchema(' + $schemaValue + '); if ( ' +
$valid + ' ) { '\n\t }\n\t }\n\t if ($inline) {\n\t if ($rDef.statements) {\n\t out += ' ' + $ruleValidate.validate + '
;\n\t } else {\n\t out += ' ' + $valid + ' = ' + $ruleValidate.validate + ';\n\t }\n\t } else if ($macro) {\n\t var
$it = it.util.copy(it);\n\t var $closingBraces = ";\n\t $it.level++;\n\t var $nextValid = 'valid' + $it.level;\n\t
$it.schema = $ruleValidate.validate;\n\t $it.schemaPath = ";\n\t var $wasComposite = it.compositeRule;\n\t
it.compositeRule = $it.compositeRule = true;\n\t var $code = it.validate($it).replace(/validate\\\.schema/g,
$validateCode);\n\t it.compositeRule = $it.compositeRule = $wasComposite;\n\t out += ' ' + $code;\n\t } else
{\n\t var $$outStack = $$outStack || [];\n\t $$outStack.push(out);\n\t out = ";\n\t out += ' ' + $validateCode +
'.call( '\n\t
if (it.opts.passContext) {\n\t out += 'this';\n\t } else {\n\t out += 'self';\n\t }\n\t if ($compile ||
$rDef.schema === false) {\n\t out += ', ' + $data + ';\n\t } else {\n\t out += ', ' + $schemaValue + ', ' +
$data + ', validate.schema' + it.schemaPath + ';\n\t }\n\t out += ', (dataPath || \'\');\n\t if (it.errorPath !== "")
{\n\t out += ' ' + it.errorPath;\n\t }\n\t var $parentData = $dataLvl ? 'data' + ($dataLvl - 1 || "") :
'parentData',\n\t $parentDataProperty = $dataLvl ? it.dataPathArr[$dataLvl] : 'parentDataProperty';\n\t out += '
, ' + $parentData + ', ' + $parentDataProperty + ', rootData ) '\n\t var def_callRuleValidate = out;\n\t out =
$$outStack.pop();\n\t if ($rDef.errors === false) {\n\t out += ' ' + $valid + ' = ';\n\t if ($asyncKeyword) {\n\t
out += " + it.yieldAwait;\n\t }\n\t out += " + def_callRuleValidate + ';\n\t } else {\n\t
if ($asyncKeyword) {\n\t $ruleErrs = 'customErrors' + $lvl;\n\t out += ' var ' + $ruleErrs + ' = null; try { '
+ $valid + ' = ' + it.yieldAwait + def_callRuleValidate + ';\n\t } catch (e) { ' + $valid + ' = false; if (e instanceof
ValidationError) ' + $ruleErrs + ' = e.errors; else throw e; }';\n\t } else {\n\t out += ' ' + $ruleErrs + ' = null; '
+ $valid + ' = ' + def_callRuleValidate + ';\n\t }\n\t }\n\t if ($rDef.modifying) {\n\t out += ' ( ' +
$parentData + ' ) ' + $data + ' = ' + $parentData + '[' + $parentDataProperty + '];';\n\t }\n\t out += " +
$closingBraces;\n\t if ($rDef.valid) {\n\t if ($breakOnError) {\n\t out += ' if (true) { '\n\t }\n\t } else {\n\t
out += ' if ( '\n\t if ($rDef.valid === undefined) {\n\t out += ' !';\n\t if ($macro) {\n\t out += " +
$nextValid;\n\t } else {\n\t out += " + $valid;\n\t }\n\t } else {\n\t out += ' ' + !$rDef.valid + ';\n\t
}\n\t out += ') { '\n\t $errorKeyword = $rule.keyword;\n\t var $$outStack = $$outStack || [];\n\t
$$outStack.push(out);\n\t out = ";\n\t var $$outStack = $$outStack || [];\n\t $$outStack.push(out);\n\t out = "
/* istanbul ignore else */\n\t if (it.createErrors !== false) {\n\t out += ' { keyword: \'' + ($errorKeyword ||
'custom') + '\', dataPath: (dataPath || \'\') + ' + it.errorPath + ', schemaPath: ' +
it.util.toQuotedString($errSchemaPath) + ', params: { keyword: \'' + $rule.keyword + '\'}';\n\t if
(it.opts.messages !== false) {\n\t out += ', message: \'' + should pass \'' + $rule.keyword + '\' keyword
validation\'';\n\t }\n\t if (it.opts.verbose) {\n\t out += ', schema: validate.schema' + $schemaPath + ',
parentSchema: validate.schema' + it.schemaPath + ', data: ' + $data + ';\n\t }\n\t out += ' }';\n\t } else {\n\t
out += ' { }';\n\t }\n\t var __err = out;\n\t out = $$outStack.pop();\n\t
if (!$it.compositeRule && $breakOnError) {\n\t /* istanbul ignore if */\n\t if (it.async) {\n\t out += '
throw new ValidationError([' + __err + ']); '\n\t } else {\n\t out += ' validate.errors = [' + __err + ']; return

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false; }\n\t }\n\t } else {\n\t out += ' var err = ' + __err + '; if (vErrors === null) vErrors = [err]; else
vErrors.push(err); errors++; }\n\t }\n\t var def_customError = out;\n\t out = $$outStack.pop();\n\t if ($inline)
{\n\t if ($rDef.errors) {\n\t if ($rDef.errors != 'full') {\n\t out += ' for (var ' + $i + '=' + $errs + '; ' + $i +
'<errors; ' + $i + '++) { var ' + $ruleErr + ' = vErrors[' + $i + ']; if (' + $ruleErr + '.dataPath === undefined) ' +
$ruleErr + '.dataPath = (dataPath || \\') + ' + it.errorPath + '; if (' + $ruleErr + '.schemaPath === undefined) { ' +
$ruleErr + '.schemaPath = \'' + $errSchemaPath + '\"; } }\n\t if (it.opts.verbose) {\n\t
out += ' ' + $ruleErr + '.schema = ' + $schemaValue + '; ' + $ruleErr + '.data = ' + $data + '; }\n\t }\n\t
out += ' };\n\t }\n\t } else {\n\t if ($rDef.errors === false) {\n\t out += ' ' + def_customError +
'\n\t } else {\n\t out += ' if (' + $errs + ' === errors) { ' + def_customError + ' } else { for (var ' + $i + '=' +
$errs + '; ' + $i + '++) { var ' + $ruleErr + ' = vErrors[' + $i + ']; if (' + $ruleErr + '.dataPath ===
undefined) ' + $ruleErr + '.dataPath = (dataPath || \\') + ' + it.errorPath + '; if (' + $ruleErr + '.schemaPath ===
undefined) { ' + $ruleErr + '.schemaPath = \'' + $errSchemaPath + '\"; } }\n\t if (it.opts.verbose) {\n\t
out += ' ' + $ruleErr + '.schema = ' + $schemaValue + '; ' + $ruleErr + '.data = ' + $data + '; }\n\t }\n\t
out += ' } }\n\t }\n\t }\n\t } else if ($macro) {\n\t out += ' var err =
' /* istanbul ignore else */\n\t if (it.createErrors !== false) {\n\t out += ' { keyword: \'' + ($errorKeyword ||
'custom') + '\\', dataPath: (dataPath || \\') + ' + it.errorPath + ', schemaPath: ' +
it.util.toQuotedString($errSchemaPath) + ', params: { keyword: \'' + $rule.keyword + '\\'} }\n\t if
(it.opts.messages !== false) {\n\t out += ', message: \\should pass \'' + $rule.keyword + '\" keyword
validation\\'; }\n\t if (it.opts.verbose) {\n\t out += ', schema: validate.schema' + $schemaPath + ',
parentSchema: validate.schema' + it.schemaPath + ', data: ' + $data + '; }\n\t }\n\t out += ' };\n\t } else
{\n\t out += ' };\n\t }\n\t out += '; if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++;
}\n\t if (!it.compositeRule && $breakOnError) {\n\t /* istanbul ignore if */\n\t if (it.async) {\n\t
out += ' throw new ValidationError(vErrors);
'\n\t } else {\n\t out += ' validate.errors = vErrors; return false; }\n\t }\n\t }\n\t } else {\n\t if
($rDef.errors === false) {\n\t out += ' ' + def_customError + ';\n\t } else {\n\t out += ' if
(Array.isArray(' + $ruleErrs + ')) { if (vErrors === null) vErrors = ' + $ruleErrs + '; else vErrors = vErrors.concat(' +
$ruleErrs + '); errors = vErrors.length; for (var ' + $i + '=' + $errs + '; ' + $i + '++) { var ' + $ruleErr
+ ' = vErrors[' + $i + ']; if (' + $ruleErr + '.dataPath === undefined) ' + $ruleErr + '.dataPath = (dataPath || \\') + ' +
it.errorPath + '; ' + $ruleErr + '.schemaPath = \'' + $errSchemaPath + '\"; }\n\t if (it.opts.verbose) {\n\t out
+= ' ' + $ruleErr + '.schema = ' + $schemaValue + '; ' + $ruleErr + '.data = ' + $data + '; }\n\t }\n\t
out += ' } else { ' + def_customError + ' };\n\t }\n\t }\n\t } out += ' };\n\t if
($breakOnError) {\n\t out += ' else { }\n\t }\n\t }\n\t }\n\t return out;\n\t};\n\n*/\n\n*/\n\n*/\n\n*/\n\n*/\n\n*/
function(module, exports) {\n\n\tmodule.exports = {"$schema": "http://json-schema.org/draft-
06/schema#", "$id": "https://raw.githubusercontent.com/epoberezkin/ajv/master/lib/refs/$data.json#", "description
": "Meta-schema for $data reference (JSON-schema extension
proposal)", "type": "object", "required": ["$data"], "properties": {"$data": {"type": "string", "anyOf": [{"for
mat": "relative-json-pointer"}, {"format": "json-pointer"}]}}, "additionalProperties": false}\n\n*/\n\n*/\n\n*/\n\n*/\n\n*/\n\n*/
function(module, exports) {\n\n\tmodule.exports = {"$schema": "http://json-schema.org/draft-
06/schema#", "$id": "http://json-schema.org/draft-06/schema#", "title": "Core schema meta-
schema", "definitions": {"schemaArray": {"type": "array", "minItems": 1, "items": {"$ref": "#"}}, "nonNegati
veInteger": {"type": "integer", "minimum": 0, "nonNegativeIntegerDefault": {"allOf": [{"$ref": "#/definition
s/nonNegativeInteger"}], "default": 0}}, "simpleTypes": {"enum": ["array", "boolean", "integer", "null", "nu
mber", "object", "string"]}, "stringArray": {"type": "array", "items": {"type": "string"}, "uniqueItems": true, "
default": []}, "type": ["object", "boolean"], "properties": {"$id": {"type": "string", "format": "uri-
reference"}, "$schema": {"type": "string", "format": "uri"}, "$ref": {"type": "string", "format": "uri-
reference"}, "title": {"type": "string"}, "description": {"type": "string"}, "default": {"type": "number", "exclusiveMinimum": 0, "maximum": {"type": "number"}, "exclusiveMaximum": {"type": "numbe
r"}, "minimum": {"type": "number"}, "exclusiveMinimum": {"type": "number"}, "maxLength": {"$ref": "#/d

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efinitions/nonNegativeInteger\},"minLength":{"$ref":"#/definitions/nonNegativeIntegerDefault0"},"pattern":
{"type":"string","format":"regex"},"additionalItems":{"$ref":"#"},"items":{"anyOf":[{"$ref":"#"},{
"$ref":"#/definitions/schemaArray"}]},"default":{},"maxItems":{"$ref":"#/definitions/nonNegativeInteger"}
,"minItems":{"$ref":"#/definitions/nonNegativeIntegerDefault0"},"uniqueItems":{"type":"boolean","default
":false},"contains":{"$ref":"#"},"maxProperties":{"$ref":"#/definitions/nonNegativeInteger"},"minProper
ties":{"$ref":"#/definitions/nonNegativeIntegerDefault0"},"required":{"$ref":"#/definitions/stringArray"},"
additionalProperties":{"$ref":"#"},"definitions":{"type":"object","additionalProperties":{"$ref":"#"},"d
efault":{},"properties":{"type":"object","additionalProperties":{"$ref":"#"},"default":{},"patternProper
ties":{"type":"object","additionalProperties":{"$ref":"#"},"default":{},"dependencies":{"type":"object
"},"additionalProperties":{"anyOf":[{"$ref":"#"},{"$ref":"#/definitions/stringArray"}]}},"propertyNames":
{"$ref":"#"},"const":{},"enum":{"type":"array","minItems":1,"uniqueItems":true,"type":{"anyOf":[{"
"$ref":"#/definitions/simpleTypes"},{"type":"array"},"items":{"$ref":"#/definitions/simpleTypes"},"minIte
ms":1,"uniqueItems":true}},"format":{"type":"string"},"allOf":{"$ref":"#/definitions/schemaArray"},"a
nyOf":{"$ref":"#/definitions/schemaArray"},"oneOf":{"$ref":"#/definitions/schemaArray"},"not":{"$ref"
:"#"},"default":{}}\n\n***/
```

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},\n/* 69 */\n***/ function(module, exports, __webpack_require__) {\n\n\t"use
strict";\n\n\tObject.defineProperty(exports, "__esModule", {\n\t\tvalue: true\n\t});\n\n\tvar _ArrayField =
__webpack_require__(70);\n\tvar _ArrayField2 = _interopRequireDefault(_ArrayField);\n\tvar
_BooleanField = __webpack_require__(72);\n\tvar _BooleanField2 =
_interopRequireDefault(_BooleanField);\n\tvar _DescriptionField = __webpack_require__(73);\n\tvar
_DescriptionField2 = _interopRequireDefault(_DescriptionField);\n\tvar _NumberField =
__webpack_require__(74);\n\tvar _NumberField2 = _interopRequireDefault(_NumberField);\n\tvar
_ObjectField = __webpack_require__(75);\n\tvar _ObjectField2 =
_interopRequireDefault(_ObjectField);\n\tvar _SchemaField = __webpack_require__(76);\n\tvar
_SchemaField2 = _interopRequireDefault(_SchemaField);\n\tvar _StringField =
__webpack_require__(77);\n\tvar _StringField2 = _interopRequireDefault(_StringField);\n\tvar
_TitleField = __webpack_require__(78);\n\tvar _TitleField2 = _interopRequireDefault(_TitleField);\n\tvar
_UnsupportedField = __webpack_require__(71);\n\tvar _UnsupportedField2 =
_interopRequireDefault(_UnsupportedField);\n\n\tfunction _interopRequireDefault(obj) { return obj &&
obj.__esModule ? obj : { default: obj }; }\n\n\texports.default = {\n\t\tArrayField: _ArrayField2.default,\n\t\t
BooleanField: _BooleanField2.default,\n\t\tDescriptionField: _DescriptionField2.default,\n\t\tNumberField: _NumberField2.default,\n\t\tObjectField:
_ObjectField2.default,\n\t\tSchemaField: _SchemaField2.default,\n\t\tStringField: _StringField2.default,\n\t\t
TitleField: _TitleField2.default,\n\t\tUnsupportedField: _UnsupportedField2.default\n\t};\n\n\t***/ }\n\n/* 70
*/\n\n***/ function(module, exports, __webpack_require__) {\n\n\t"use
strict";\n\n\tObject.defineProperty(exports, "__esModule", {\n\t\tvalue: true\n\t});\n\n\tvar _createClass =
function () { function defineProperties(target, props) { for (var i = 0; i < props.length; i++) { var descriptor =
props[i]; descriptor.enumerable = descriptor.enumerable || false; descriptor.configurable = true; if (!"value" in
descriptor) descriptor.writable = true; Object.defineProperty(target, descriptor.key, descriptor); } } return function
(Constructor, protoProps, staticProps) { if (protoProps) defineProperties(Constructor.prototype, protoProps); if
(staticProps) defineProperties(Constructor, staticProps); return Constructor; }; }();\n\n\tvar _extends = Object.assign || function (target) { for (var i = 1; i <
arguments.length; i++) { var source = arguments[i]; for (var key in source) { if
(Object.prototype.hasOwnProperty.call(source, key)) { target[key] = source[key]; } } } return target; };\n\n\tvar
_react = __webpack_require__(2);\n\tvar _react2 = _interopRequireDefault(_react);\n\tvar _propTypes =
__webpack_require__(3);\n\tvar _propTypes2 = _interopRequireDefault(_propTypes);\n\tvar
_UnsupportedField = __webpack_require__(71);\n\tvar _UnsupportedField2 =
_interopRequireDefault(_UnsupportedField);\n\tvar _utils = __webpack_require__(8);\n\n\tfunction
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_interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj } };
_toConsumableArray(arr) { if (Array.isArray(arr)) { for (var i = 0, arr2 = Array(arr.length); i < arr.length; i++) {
arr2[i] = arr[i]; } return arr2; } else { return Array.from(arr);
} }
_classCallCheck(instance, Constructor) { if (!(instance instanceof Constructor)) { throw new
TypeError("Cannot call a class as a function"); } }
_possibleConstructorReturn(self, call) { if (!self)
{ throw new ReferenceError("this hasn't been initialised - super() hasn't been called"); } return call && (typeof call
=== "object" || typeof call === "function") ? call : self; }
_inherits(subClass, superClass) { if
(typeof superClass !== "function" && superClass !== null) { throw new TypeError("Super expression must either
be null or a function, not " + typeof superClass); } subClass.prototype = Object.create(superClass &&
superClass.prototype, { constructor: { value: subClass, enumerable: false, writable: true, configurable: true } }); if
(superClass) Object.setPrototypeOf ? Object.setPrototypeOf(subClass, superClass) : subClass.__proto__ =
superClass; }
_objectWithoutProperties(obj, keys) { var target
= {}; for (var i in obj) { if (keys.indexOf(i) >= 0) continue; if (!Object.prototype.hasOwnProperty.call(obj, i))
continue; target[i] = obj[i]; } return target; }
ArrayFieldTitle(_ref) { var TitleField =
_ref.TitleField, idSchema = _ref.idSchema, title = _ref.title, required = _ref.required; if (!title) // See #312: Ensure compatibility with old versions of React. return
_react2.default.createElement("div", null); var id = idSchema.$id + "__title"; return
_react2.default.createElement(TitleField, { id: id, title: title, required: required }); }
ArrayFieldDescription(_ref2) { var DescriptionField = _ref2.DescriptionField, idSchema =
_ref2.idSchema, description = _ref2.description; if (!description) // See #312: Ensure
compatibility with old versions of React. return _react2.default.createElement("div", null); var id = idSchema.$id + "__description"; return _react2.default.createElement(DescriptionField, { id: id,
description: description }); }
IconButton(props) { var _props$type = props.type, type =
_props$type === undefined ? "default" : _props$type, icon = props.icon, className =
props.className, otherProps = _objectWithoutProperties(props, ["type", "icon", "className"]); return _react2.default.createElement("button", _extends({ type: "button", className:
"btn btn-" + type + " " + className }, otherProps), _react2.default.createElement("i", { className:
"glyphicon glyphicon-" + icon })); } // Used in the two templates
DefaultArrayItem(props) { var btnStyle = { flex: 1, paddingLeft: 6, paddingRight: 6,
fontWeight: "bold" }; return _react2.default.createElement("div", {
key: props.index, className: props.className }, _react2.default.createElement("div", {
className: props.hasToolbar ? "col-xs-9" : "col-xs-12" }, props.children), props.hasToolbar
&& _react2.default.createElement("div", { className: "col-xs-3 array-item-toolbox" },
_react2.default.createElement("div", { className: "btn-group", style: { display:
"flex", justifyContent: "space-around" } }, (props.hasMoveUp || props.hasMoveDown) &&
_react2.default.createElement(IconButton, { icon: "arrow-up", className: "array-item-move-
up", tabIndex: "-1", style: btnStyle, disabled: props.disabled || props.readonly ||
!props.hasMoveUp, onClick: props.onReorderClick(props.index, props.index - 1) },
(props.hasMoveUp || props.hasMoveDown) && _react2.default.createElement(IconButton,
{ icon: "arrow-down", className: "array-item-move-down", tabIndex: "-1",
style: btnStyle, disabled: props.disabled || props.readonly || !props.hasMoveDown,
onClick: props.onReorderClick(props.index, props.index + 1) }, props.hasRemove &&
_react2.default.createElement(IconButton, { type: "danger", icon: "remove", className:
"array-item-remove", tabIndex: "-1", style: btnStyle, disabled: props.disabled ||
props.readonly, onClick: props.onDropIndexClick(props.index) })); }
DefaultFixedArrayFieldTemplate(props) { return _react2.default.createElement("fieldset", {
className: props.className }, _react2.default.createElement(ArrayFieldTitle, { key:
"array-field-title-"

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+ props.idSchema.$id,\n\t TitleField: props.TitleField,\n\t idSchema: props.idSchema,\n\t title:
props.uiSchema["ui:title"] || props.title,\n\t required: props.required\n\t })),\n\t
(props.uiSchema["ui:description"] || props.schema.description) && _react2.default.createElement(\n\t
"div",\n\t {\n\t   className: "field-description",\n\t   key: "field-description-" + props.idSchema.$id
},\n\t props.uiSchema["ui:description"] || props.schema.description\n\t ),\n\t
_react2.default.createElement(\n\t "div",\n\t {\n\t   className: "row array-item-list",\n\t   key:
"array-item-list-" + props.idSchema.$id },\n\t props.items && props.items.map(DefaultArrayItem)\n\t ),\n\t
props.canAdd && _react2.default.createElement(AddButton, {\n\t   onClick: props.onAddClick,\n\t   disabled:
props.disabled || props.readonly\n\t })\n\t );\n\t\n\t\n\tfunction DefaultNormalArrayFieldTemplate(props)
{\n\t return _react2.default.createElement(\n\t "fieldset",\n\t { className: props.className },\n\t
_react2.default.createElement(ArrayFieldTitle, {\n\t   key: "array-field-title-" + props.idSchema.$id,\n\t
TitleField: props.TitleField,\n\t idSchema: props.idSchema,\n\t title: props.uiSchema["ui:title"] ||
props.title,\n\t required: props.required\n\t })),\n\t (props.uiSchema["ui:description"] ||
props.schema.description) && _react2.default.createElement(ArrayFieldDescription, {\n\t   key: "array-field-
description-" + props.idSchema.$id,\n\t   DescriptionField: props.DescriptionField,\n\t idSchema:
props.idSchema,\n\t description: props.uiSchema["ui:description"] || props.schema.description\n\t })),\n\t
_react2.default.createElement(\n\t "div",\n\t {\n\t   className: "row array-item-list",\n\t   key:
"array-item-list-" + props.idSchema.$id },\n\t props.items && props.items.map(function
(p) {\n\t   return DefaultArrayItem(p);\n\t })\n\t ),\n\t props.canAdd &&
_react2.default.createElement(AddButton, {\n\t   onClick: props.onAddClick,\n\t   disabled: props.disabled ||
props.readonly\n\t })\n\t );\n\t\n\t\n\tvar ArrayField = function (_Component) {\n\t _inherits(ArrayField,
_Component);\n\t\n\t function ArrayField() {\n\t var _ref3;\n\t\n\t var _temp, _this, _ret;\n\t\n\t
_classCallCheck(this, ArrayField);\n\t\n\t for (var _len = arguments.length, args = Array(_len), _key = 0; _key <
_len; _key++) {\n\t   args[_key] = arguments[_key];\n\t }\n\t\n\t return _ret = (_temp = (_this =
_possibleConstructorReturn(this, (_ref3 = ArrayField.__proto__ ||
Object.getPrototypeOf(ArrayField)).call.apply(_ref3, [this].concat(args))), _this), _this.onAddClick = function
(event) {\n\t   event.preventDefault();\n\t   var _this$props = _this.props,\n\t   schema =
_this$props.schema,\n\t   formData = _this$props.formData,\n\t   _this$props$registry = _this$props.registry,\n\t   registry = _this$props$registry === undefined ? (0,
_utils.getDefaultRegistry)() : _this$props$registry;\n\t   var definitions = registry.definitions;\n\t\n\t\n\t   var
itemSchema = schema.items;\n\t   if ((0, _utils.isFixedItems)(schema) && (0,
_utils.allowAdditionalItems)(schema)) {\n\t     itemSchema = schema.additionalItems;\n\t   }\n\t\n\t
_this.props.onChange([], concat(_toConsumableArray(formData), [(0, _utils.getDefaultFormState)(itemSchema,
undefined, definitions)]), { validate: false }));\n\t }, _this.onDropIndexClick = function (index) {\n\t   return
function (event) {\n\t     if (event) {\n\t       event.preventDefault();\n\t     }\n\t     var _this$props2 =
_this.props,\n\t     formData = _this$props2.formData,\n\t     onChange = _this$props2.onChange;\n\t     //
refs #195: revalidate to ensure properly reindexing errors\n\t\n\t     onChange(formData.filter(function
(, i) {\n\t       return i !== index;\n\t     })), { validate: true }));\n\t   }\n\t }, _this.onReorderClick = function
(index, newIndex) {\n\t   return function (event) {\n\t     if (event) {\n\t       event.preventDefault();\n\t     }
event.target.blur();\n\t   }\n\t   var _this$props3 = _this.props,\n\t   formData =
_this$props3.formData,\n\t   onChange = _this$props3.onChange;\n\t\n\t\n\t   onChange(formData.map(function (item, i) {\n\t     if (i === newIndex) {\n\t       return formData[index];\n\t     }
else if (i === index) {\n\t       return formData[newIndex];\n\t     } else {\n\t       return item;\n\t     }
\n\t   })), { validate: true }));\n\t   }\n\t }, _this.onChangeForIndex = function (index) {\n\t   return function
(value) {\n\t     var _this$props4 = _this.props,\n\t     formData = _this$props4.formData,\n\t     onChange
= _this$props4.onChange;\n\t\n\t\n\t     var newFormData = formData.map(function (item, i) {\n\t       // We need to treat undefined items as nulls to
have validation.\n\t       // See https://github.com/tdegrunt/jsonschema/issues/206\n\t       var jsonValue = typeof

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value === "undefined" ? null : value;\n\t      return index === i ? jsonValue : item;\n\t    });\n\t
onChange(newFormData, { validate: false });\n\t  });\n\t  }, _this.onSelectChange = function (value) {\n\t
_this.props.onChange(value, { validate: false });\n\t  }, _temp), _possibleConstructorReturn(_this, _ret);\n\t
})\n\t\n\t _createClass(ArrayField, [{\n\t  key: "isRequired",\n\t  value: function
isRequired(itemSchema) {\n\t    if (Array.isArray(itemSchema.type)) {\n\t      // While we don't yet support
composite/nullable jsonschema types, it's\n\t      // future-proof to check for requirement against these.\n\t
return !itemSchema.type.includes("null");\n\t    }\n\t
    // All non-null array item types are inherently required by design\n\t    return itemSchema.type !== "null";\n\t
  }}, {\n\t  key: "canAddItem",\n\t  value: function canAddItem(formItems) {\n\t    var _props =
this.props,\n\t    schema = _props.schema,\n\t    uiSchema = _props.uiSchema;\n\t\n\t    var _getUiOptions =
(0, _utils.getUiOptions)(uiSchema),\n\t    addable = _getUiOptions.addable;\n\t\n\t    if (addable !== false) {\n\t
    // if ui:options.addable was not explicitly set to false, we can add\n\t    // another item if we have not exceeded
maxItems yet\n\t    if (schema.maxItems !== undefined) {\n\t      addable = formItems.length <
schema.maxItems;\n\t    } else {\n\t      addable = true;\n\t    }\n\t  }\n\t  }\n\t  return addable;\n\t  },\n\t
  {\n\t  key: "render",\n\t  value: function render() {\n\t    var _props2 = this.props,\n\t    schema =
_props2.schema,\n\t    uiSchema
= _props2.uiSchema,\n\t    idSchema = _props2.idSchema,\n\t    _props2$registry = _props2.registry,\n\t
registry = _props2$registry === undefined ? (0, _utils.getDefaultRegistry)() : _props2$registry;\n\t    var
definitions = registry.definitions;\n\t\n\t    if (!schema.hasOwnProperty("items")) {\n\t      return
_react2.default.createElement(_UnsupportedField2.default, {\n\t        schema: schema,\n\t        idSchema:
idSchema,\n\t        reason: "Missing items definition"\n\t      });\n\t    }\n\t    if ((0,
_utils.isFixedItems)(schema)) {\n\t      return this.renderFixedArray();\n\t    }\n\t    if ((0,
_utils.isFilesArray)(schema, uiSchema, definitions)) {\n\t      return this.renderFiles();\n\t    }\n\t    if ((0,
_utils.isMultiSelect)(schema, definitions)) {\n\t      return this.renderMultiSelect();\n\t    }\n\t    return
this.renderNormalArray();\n\t  }\n\t  }, {\n\t  key: "renderNormalArray",\n\t  value: function
renderNormalArray() {\n\t    var _this2 = this;\n\t    var _props3 = this.props,\n\t    schema =
_props3.schema,\n\t    uiSchema = _props3.uiSchema,\n\t    formData = _props3.formData,\n\t    errorSchema = _props3.errorSchema,\n\t    idSchema = _props3.idSchema,\n\t    name = _props3.name,\n\t
required = _props3.required,\n\t    disabled = _props3.disabled,\n\t    readonly = _props3.readonly,\n\t
autofocus = _props3.autofocus,\n\t    _props3$registry = _props3.registry,\n\t    registry = _props3$registry
=== undefined ? (0, _utils.getDefaultRegistry)() : _props3$registry,\n\t    formContext =
_props3.formContext,\n\t    onBlur = _props3.onBlur,\n\t    onFocus = _props3.onFocus;\n\t\n\t    var title =
schema.title === undefined ? name : schema.title;\n\t    var ArrayFieldTemplate = registry.ArrayFieldTemplate,\n\t
definitions = registry.definitions,\n\t    fields
= registry.fields;\n\t    var TitleField = fields.TitleField,\n\t    DescriptionField = fields.DescriptionField;\n\t\n\t
var itemsSchema = (0, _utils.retrieveSchema)(schema.items, definitions);\n\t    var arrayProps = {\n\t
canAdd: this.canAddItem(formData),\n\t    items: formData.map(function (item, index) {\n\t      var
itemSchema = (0, _utils.retrieveSchema)(schema.items, definitions, item);\n\t      var itemErrorSchema =
errorSchema ? errorSchema[index] : undefined;\n\t      var itemIdPrefix = idSchema.$id + \"_\" + index;\n\t
var itemIdSchema = (0, _utils.toIdSchema)(itemSchema, itemIdPrefix, definitions, item);\n\t      return
_this2.renderArrayFieldItem({\n\t        index: index,\n\t        canMoveUp: index > 0,\n\t        canMoveDown:
index < formData.length - 1,\n\t        itemSchema: itemSchema,\n\t        itemIdSchema: itemIdSchema,\n\t
itemErrorSchema: itemErrorSchema,\n\t        itemData:
item,\n\t        itemUiSchema: uiSchema.items,\n\t        autofocus: autofocus && index === 0,\n\t
onBlur: onBlur,\n\t        onFocus: onFocus\n\t      });\n\t    })),\n\t    className: "field field-array field-
array-of-\" + itemsSchema.type,\n\t    DescriptionField: DescriptionField,\n\t    disabled: disabled,\n\t
idSchema: idSchema,\n\t    uiSchema: uiSchema,\n\t    onClick: this.onClick,\n\t    readonly:
readonly,\n\t    required: required,\n\t    schema: schema,\n\t    title: title,\n\t    TitleField: TitleField,\n\t

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formContext: formContext,\n\t formData: formData\n\t };\n\t\n\t // Check if a custom render function was
passed in\n\t var Component = ArrayFieldTemplate || DefaultNormalArrayFieldTemplate;\n\t return
_react2.default.createElement(Component, arrayProps);\n\t }\n\t }, {\n\t key: \"renderMultiSelect\",\n\t value:
function renderMultiSelect() {\n\t
var _props4 = this.props,\n\t schema = _props4.schema,\n\t idSchema = _props4.idSchema,\n\t
uiSchema = _props4.uiSchema,\n\t formData = _props4.formData,\n\t disabled = _props4.disabled,\n\t
readonly = _props4.readonly,\n\t autofocus = _props4.autofocus,\n\t onBlur = _props4.onBlur,\n\t
onFocus = _props4.onFocus,\n\t _props4$registry = _props4.registry,\n\t registry = _props4$registry ===
undefined ? (0, _utils.getDefaultRegistry)() : _props4$registry;\n\t\n\t var items = this.props.formData;\n\t var
widgets = registry.widgets,\n\t definitions = registry.definitions,\n\t formContext =
registry.formContext;\n\t\n\t var itemsSchema = (0, _utils.retrieveSchema)(schema.items, definitions,
formData);\n\t var enumOptions = (0, _utils.optionsList)(itemsSchema);\n\t\n\t var _getUiOptions$enumOpt =
_extends({}, (0, _utils.getUiOptions)(uiSchema),
{\n\t enumOptions: enumOptions\n\t }),\n\t _getUiOptions$enumOpt2 =
_getUiOptions$enumOpt.widget,\n\t widget = _getUiOptions$enumOpt2 === undefined ? \"select\" :
_getUiOptions$enumOpt2,\n\t options = _objectWithoutProperties(_getUiOptions$enumOpt,
[\"widget\"]);\n\t\n\t var Widget = (0, _utils.getWidget)(schema, widget, widgets);\n\t return
_react2.default.createElement(Widget, {\n\t id: idSchema && idSchema.$id,\n\t multiple: true,\n\t
onChange: this.onSelectChange,\n\t onBlur: onBlur,\n\t onFocus: onFocus,\n\t options: options,\n\t
schema: schema,\n\t value: items,\n\t disabled: disabled,\n\t readonly: readonly,\n\t formContext:
formContext,\n\t autofocus: autofocus\n\t });\n\t }\n\t }, {\n\t key: \"renderFiles\",\n\t value: function
renderFiles() {\n\t var _props5 = this.props,\n\t schema = _props5.schema,\n\t uiSchema
= _props5.uiSchema,\n\t idSchema = _props5.idSchema,\n\t name = _props5.name,\n\t disabled =
_props5.disabled,\n\t readonly = _props5.readonly,\n\t autofocus = _props5.autofocus,\n\t onBlur =
_props5.onBlur,\n\t onFocus = _props5.onFocus,\n\t _props5$registry = _props5.registry,\n\t
registry = _props5$registry === undefined ? (0, _utils.getDefaultRegistry)() : _props5$registry;\n\t\n\t var title =
schema.title || name;\n\t var items = this.props.formData;\n\t var widgets = registry.widgets,\n\t
formContext = registry.formContext;\n\t\n\t var _getUiOptions2 = (0, _utils.getUiOptions)(uiSchema),\n\t
_getUiOptions2$widget = _getUiOptions2.widget,\n\t widget = _getUiOptions2$widget === undefined ?
\"files\" : _getUiOptions2$widget,\n\t options = _objectWithoutProperties(_getUiOptions2,
[\"widget\"]);\n\t\n\t var Widget = (0, _utils.getWidget)(schema,
widget, widgets);\n\t return _react2.default.createElement(Widget, {\n\t options: options,\n\t id:
idSchema && idSchema.$id,\n\t multiple: true,\n\t onChange: this.onSelectChange,\n\t onBlur:
onBlur,\n\t onFocus: onFocus,\n\t schema: schema,\n\t title: title,\n\t value: items,\n\t disabled:
disabled,\n\t readonly: readonly,\n\t formContext: formContext,\n\t autofocus: autofocus\n\t });\n\t
}\n\t }, {\n\t key: \"renderFixedArray\",\n\t value: function renderFixedArray() {\n\t var _this3 = this;\n\t\n\t
var _props6 = this.props,\n\t schema = _props6.schema,\n\t uiSchema = _props6.uiSchema,\n\t
formData = _props6.formData,\n\t errorSchema = _props6.errorSchema,\n\t idSchema =
_props6.idSchema,\n\t name = _props6.name,\n\t required = _props6.required,\n\t disabled =
_props6.disabled,\n\t
readonly = _props6.readonly,\n\t autofocus = _props6.autofocus,\n\t _props6$registry =
_props6.registry,\n\t registry = _props6$registry === undefined ? (0, _utils.getDefaultRegistry)() :
_props6$registry,\n\t onBlur = _props6.onBlur,\n\t onFocus = _props6.onFocus;\n\t\n\t var title =
schema.title || name;\n\t var items = this.props.formData;\n\t var ArrayFieldTemplate =
registry.ArrayFieldTemplate,\n\t definitions = registry.definitions,\n\t fields = registry.fields;\n\t var
TitleField = fields.TitleField;\n\t\n\t var itemSchemas = schema.items.map(function (item, index) {\n\t return
(0, _utils.retrieveSchema)(item, definitions, formData[index]);\n\t });\n\t\n\t var additionalSchema = (0,
_utils.allowAdditionalItems)(schema) ? (0, _utils.retrieveSchema)(schema.additionalItems, definitions, formData) :

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null;\n\t\n\t if (!items || items.length < itemSchemas.length) {\n\t
  // to make sure at least all fixed items are generated\n\t items = items || [];\n\t items = items.concat(new
Array(itemSchemas.length - items.length));\n\t }\n\t\n\t // These are the props passed into the render
function\n\t var arrayProps = {\n\t   canAdd: this.canAddItem(items) && additionalSchema,\n\t   className: \"field field-array field-array-fixed-items\",\n\t   disabled: disabled,\n\t   idSchema: idSchema,\n\t   formData: formData,\n\t   items: items.map(function (item, index) {\n\t     var additional = index >=
itemSchemas.length;\n\t     var itemSchema = additional ? (0, _utils.retrieveSchema)(schema.additionalItems,
definitions, item) : itemSchemas[index];\n\t     var itemIdPrefix = idSchema.$id + \"_\" + index;\n\t     var
itemIdSchema = (0, _utils.toIdSchema)(itemSchema, itemIdPrefix, definitions, item);\n\t     var itemUiSchema =
additional ? uiSchema.additionalItems || {} : Array.isArray(uiSchema.items)
? uiSchema.items[index] : uiSchema.items || {};\n\t     var itemErrorSchema = errorSchema ?
errorSchema[index] : undefined;\n\t     return _this3.renderArrayFieldItem({\n\t       index: index,\n\t       canRemove: additional,\n\t       canMoveUp: index >= itemSchemas.length + 1,\n\t       canMoveDown:
additional && index < items.length - 1,\n\t       itemSchema: itemSchema,\n\t       itemData: item,\n\t       itemUiSchema: itemUiSchema,\n\t       itemIdSchema: itemIdSchema,\n\t       itemErrorSchema:
itemErrorSchema,\n\t       autofocus: autofocus && index === 0,\n\t       onBlur: onBlur,\n\t       onFocus:
onFocus\n\t     });\n\t   },\n\t   {\n\t     onClick: this.onClick,\n\t     readOnly: readOnly,\n\t     required:
required,\n\t     schema: schema,\n\t     uiSchema: uiSchema,\n\t     title: title,\n\t     TitleField: TitleField\n\t   }
);\n\t\n\t // Check
if a custom template template was passed in\n\t var Template = ArrayFieldTemplate ||
DefaultFixedArrayFieldTemplate;\n\t return _react2.default.createElement(Template, arrayProps);\n\t }\n\t },
{\n\t   key: \"renderArrayFieldItem\",\n\t   value: function renderArrayFieldItem(props) {\n\t     var index =
props.index,\n\t     _props$canRemove = props.canRemove,\n\t     canRemove = _props$canRemove ===
undefined ? true : _props$canRemove,\n\t     _props$canMoveUp = props.canMoveUp,\n\t     canMoveUp =
_props$canMoveUp === undefined ? true : _props$canMoveUp,\n\t     _props$canMoveDown =
props.canMoveDown,\n\t     canMoveDown = _props$canMoveDown === undefined ? true :
_props$canMoveDown,\n\t     itemSchema = props.itemSchema,\n\t     itemData = props.itemData,\n\t     itemUiSchema = props.itemUiSchema,\n\t     itemIdSchema = props.itemIdSchema,\n\t     itemErrorSchema =
props.itemErrorSchema,\n\t     autofocus =
props.autofocus,\n\t     onBlur = props.onBlur,\n\t     onFocus = props.onFocus;\n\t     var _props7 =
this.props,\n\t     disabled = _props7.disabled,\n\t     readOnly = _props7.readOnly,\n\t     uiSchema =
_props7.uiSchema,\n\t     _props7$registry = _props7.registry,\n\t     registry = _props7$registry ===
undefined ? (0, _utils.getDefaultRegistry)() : _props7$registry;\n\t     var SchemaField =
registry.fields.SchemaField;\n\t     var _orderable$removable$ = _extends({\n\t       orderable: true,\n\t       removable: true\n\t     }, uiSchema[\"ui:options\"]);\n\t     orderable = _orderable$removable$.orderable,\n\t     removable = _orderable$removable$.removable;\n\t     var has = {\n\t       moveUp: orderable &&
canMoveUp,\n\t       moveDown: orderable && canMoveDown,\n\t       remove: removable && canRemove\n\t     };\n\t     has.toolbar = Object.keys(has).some(function (key) {\n\t       return has[key];\n\t     });\n\t     return {\n\t       children: _react2.default.createElement(SchemaField, {\n\t         schema: itemSchema,\n\t         uiSchema: itemUiSchema,\n\t         formData: itemData,\n\t         errorSchema: itemErrorSchema,\n\t         idSchema: itemIdSchema,\n\t         required: this.isItemRequired(itemSchema),\n\t         onChange:
this.onChangeForIndex(index),\n\t         onBlur: onBlur,\n\t         onFocus: onFocus,\n\t         registry:
this.props.registry,\n\t         disabled: this.props.disabled,\n\t         readOnly: this.props.readOnly,\n\t         autofocus:
autofocus\n\t       },\n\t       {\n\t         className: \"array-item\",\n\t         disabled: disabled,\n\t         hasToolbar:
has.toolbar,\n\t         hasMoveUp: has.moveUp,\n\t         hasMoveDown: has.moveDown,\n\t         hasRemove:
has.remove,\n\t         index: index,\n\t         onDropIndexClick: this.onDropIndexClick,\n\t         onReorderClick:
this.onReorderClick,\n\t         readOnly: readOnly\n\t       });\n\t     }\n\t   }

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    }
  }, {
    key: 'itemTitle',
    get: function get() {
      var schema = this.props.schema;
      return schema.items.title || schema.items.description || 'Item';
    }
  });
  return
  ArrayField({
    _react.Component;
  })(ArrayField.defaultProps = {
    uiSchema: {},
    formData: [],
    idSchema: {},
    required: false,
    disabled: false,
    readonly: false,
    autofocus:
    false;
  });
  function AddButton(_ref4) {
    var onClick = _ref4.onClick,
        disabled =
        _ref4.disabled;
    return _react2.default.createElement('div', {
      className: 'row'
    },
    _react2.default.createElement('p', {
      className: 'col-xs-3 col-xs-offset-9 array-item-add text-right'
    }),
    _react2.default.createElement(IconBtn, {
      type: 'info',
      icon: 'plus',
      className:
      'btn-add col-xs-12',
      tabIndex: '0',
      onClick: onClick,
      disabled: disabled
    }));
  }
  if (false) {
    ArrayField.propTypes = {
      schema:
      _propTypes2.default.object.isRequired,
      uiSchema: _propTypes2.default.shape({
        'ui:options':
        _propTypes2.default.shape({
          addable: _propTypes2.default.bool,
          orderable:
          _propTypes2.default.bool,
          removable: _propTypes2.default.bool
        })
      }),
      idSchema:
      _propTypes2.default.object,
      errorSchema: _propTypes2.default.object,
      onChange:
      _propTypes2.default.func.isRequired,
      onBlur: _propTypes2.default.func,
      onFocus:
      _propTypes2.default.func,
      formData: _propTypes2.default.array,
      required: _propTypes2.default.bool,
      disabled: _propTypes2.default.bool,
      readonly: _propTypes2.default.bool,
      autofocus:
      _propTypes2.default.bool,
      registry: _propTypes2.default.shape({
        widgets:
        _propTypes2.default.objectOf(_propTypes2.default.oneOfType([
          _propTypes2.default.func,
          _propTypes2.default.object
        ])).isRequired,
        fields:
        _propTypes2.default.objectOf(_propTypes2.default.func).isRequired,
        definitions:
        _propTypes2.default.object.isRequired,
        formContext: _propTypes2.default.object.isRequired
      });
    }
  }
  exports.default = ArrayField;
  /** */
  /* 71 */
  /** */
  function(module, exports,
  __webpack_require__) {
    "use strict";
    Object.defineProperty(exports, '__esModule', {
      value:
      true
    });
    var _react = __webpack_require__(2);
    var _react2 =
    _interopRequireDefault(_react);
    var _propTypes =
    __webpack_require__(3);
    var _propTypes2 =
    _interopRequireDefault(_propTypes);
    function _interopRequireDefault(obj) {
      return obj && obj.__esModule
      ? obj : {
        default: obj
      };
    }
    function UnsupportedField(_ref) {
      var schema = _ref.schema,
          idSchema =
          _ref.idSchema,
          reason =
          _ref.reason;
      return _react2.default.createElement('div', {
        className: 'unsupported-field'
      },
      _react2.default.createElement('p', {
        null,
        'Unsupported field schema',
        idSchema && idSchema.$id && _react2.default.createElement('span', {
          null,
          ' for',
          ' field'
        },
        _react2.default.createElement('code', {
          null,
          idSchema.$id
        })),
        reason && _react2.default.createElement('em', {
          null,
          ': ',
          reason
        })),
        '.'
      ),
      schema &&
      _react2.default.createElement('pre', {
        null,
        JSON.stringify(schema, null, 2)
      }));
    }
    if (false) {
      UnsupportedField.propTypes = {
        schema:
        _propTypes2.default.object.isRequired,
        idSchema: _propTypes2.default.object,
        reason:
        _propTypes2.default.string
      };
    }
    exports.default = UnsupportedField;
    /** */
    /* 72 */
    /** */
    function(module, exports, __webpack_require__) {
      "use
      strict";
      Object.defineProperty(exports, '__esModule', {
        value:
        true
      });
      var _extends =
      Object.assign || function(target) {
        for (var i = 1; i < arguments.length; i++) {
          var source = arguments[i];
          for (var key
          in source) {
            if (Object.prototype.hasOwnProperty.call(source, key)) {
              target[key] = source[key];
            }
          }
        }
        return target;
      };
      var _react = __webpack_require__(2);
      var _react2 =
      _interopRequireDefault(_react);
      var _propTypes =
      __webpack_require__(3);
      var _propTypes2 =
      _interopRequireDefault(_propTypes);
      var _utils =
      __webpack_require__(8);
      function _interopRequireDefault(obj) {
        return obj && obj.__esModule
        ? obj : {
          default: obj
        };
      }
      function _objectWithoutProperties(obj, keys) {
        var target = {};
        for (var i in obj) {
          if (keys.indexOf(i) >= 0) continue;
          if (!Object.prototype.hasOwnProperty.call(obj, i)) continue;
        }
      }
    }
  }

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target[i] = obj[i]; } return target; }
function BooleanField(props) {
  var schema = props.schema,
  name = props.name,
  uiSchema = props.uiSchema,
  idSchema = props.idSchema,
  formData = props.formData,
  _props$registry = props.registry,
  registry = _props$registry === undefined ? (0,
  _utils.getDefaultRegistry)() : _props$registry,
  required = props.required,
  disabled = props.disabled,
  readonly = props.readonly,
  autofocus = props.autofocus,
  onChange = props.onChange,
  var title = schema.title,
  var widgets = registry.widgets,
  formContext = registry.formContext;
  var
  _getUiOptions = (0, _utils.getUiOptions)(uiSchema),
  _getUiOptions$widget = _getUiOptions.widget,
  widget = _getUiOptions$widget === undefined ? "checkbox" : _getUiOptions$widget,
  options =
  _objectWithoutProperties(_getUiOptions, ["widget"]);
  var Widget = (0, _utils.getWidget)(schema,
  widget, widgets);
  var enumOptions = (0, _utils.optionsList)({
  enum: [true, false],
  enumNames:
  schema.enumNames || ["yes", "no"]
  });
  return _react2.default.createElement(Widget, {
  options:
  _extends({}, options, { enumOptions: enumOptions }),
  schema: schema,
  id: idSchema &
  idSchema.$id,
  onChange: onChange,
  label: title === undefined ? name : title,
  value: formData,
  required: required,
  disabled: disabled,
  readonly: readonly,
  registry: registry,
  formContext:
  formContext,
  autofocus: autofocus
  });
}
BooleanField.propTypes = {
  schema:
  _propTypes2.default.object.isRequired,
  uiSchema:
  _propTypes2.default.object,
  idSchema:
  _propTypes2.default.object,
  onChange:
  _propTypes2.default.func.isRequired,
  formData:
  _propTypes2.default.bool,
  required:
  _propTypes2.default.bool,
  disabled:
  _propTypes2.default.bool,
  readonly:
  _propTypes2.default.bool,
  autofocus:
  _propTypes2.default.bool,
  registry:
  _propTypes2.default.shape({
  widgets:
  _propTypes2.default.objectOf(_propTypes2.default.oneOfType([
  _propTypes2.default.func,
  _propTypes2.default.object])).isRequired,
  fields:
  _propTypes2.default.objectOf(_propTypes2.default.func).isRequired,
  definitions:
  _propTypes2.default.object.isRequired,
  formContext:
  _propTypes2.default.object.isRequired
  });
}
BooleanField.defaultProps = {
  uiSchema: {},
  disabled: false,
  readonly: false,
  autofocus: false
};
exports.default = BooleanField;
function(module, exports,
__webpack_require__) {
  "use strict";
  Object.defineProperty(exports, "__esModule", {
  value:
  true
  });
  var _react = __webpack_require__(2);
  var _react2 =
  _interopRequireDefault(_react);
  var _propTypes
  = __webpack_require__(3);
  var _propTypes2 =
  _interopRequireDefault(_propTypes);
  function
  _interopRequireDefault(obj) {
    return obj && obj.__esModule ? obj : {
    default: obj
    };
  }
  function
  DescriptionField(props) {
    var id = props.id,
    description = props.description;
    if (!description) {
  // See #312: Ensure compatibility with old versions of React.
  return _react2.default.createElement("div",
  null);
    }
    if (typeof description === "string") {
  return _react2.default.createElement("p", {
  id: id,
  className: "field-description"
  },
  description
  );
    } else {
  return
  _react2.default.createElement("div", {
  id: id,
  className: "field-description"
  },
  description
  );
    }
  }
  DescriptionField.propTypes = {
  id:
  _propTypes2.default.string,
  description:
  _propTypes2.default.oneOfType([
  _propTypes2.default.string,
  _propTypes2.default.element
  ])
  };
  exports.default = DescriptionField;
  function(module, exports, __webpack_require__) {
  "use strict";
  Object.defineProperty(exports,
  "__esModule", {
  value: true
  });
  var _extends = Object.assign || function (target) {
  for (var i = 1; i <
  arguments.length; i++) {
    var source = arguments[i];
    for (var key in source) {
  if
  (Object.prototype.hasOwnProperty.call(source, key)) {
    target[key] = source[key];
  }
    }
  }
  return target;
  };
  var _react = __webpack_require__(2);
  var _react2 =
  _interopRequireDefault(_react);
  var _propTypes =
  __webpack_require__(3);
  var _propTypes2 =
  _interopRequireDefault(_propTypes);
  var _utils =
  __webpack_require__(8);
  function _interopRequireDefault(obj) {
  return obj && obj.__esModule ? obj : {
  default: obj
  };
  }
  function NumberField(props) {
    var StringField = props.registry.fields.StringField;
    return _react2.default.createElement(StringField,

```







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descriptor.configurable = true; if ("value" in descriptor) descriptor.writable = true; Object.defineProperty(target,
descriptor.key, descriptor); } } return function (Constructor, protoProps, staticProps) { if (protoProps)
defineProperties(Constructor.prototype, protoProps); if (staticProps) defineProperties(Constructor, staticProps);
return Constructor; }; }());\n\n\tvar _extends = Object.assign || function (target) { for (var i = 1; i <
arguments.length; i++) { var source = arguments[i]; for (var key in source) { if
(Object.prototype.hasOwnProperty.call(source,
key)) { target[key] = source[key]; } } } return target; };\n\n\tvar _react = __webpack_require__(2);\n\n\tvar
_react2 = _interopRequireDefault(_react);\n\n\tvar _propTypes = __webpack_require__(3);\n\n\tvar _propTypes2 =
_interopRequireDefault(_propTypes);\n\n\tvar _utils = __webpack_require__(8);\n\n\tvar _UnsupportedField =
__webpack_require__(71);\n\n\tvar _UnsupportedField2 =
_interopRequireDefault(_UnsupportedField);\n\n\tfunction _interopRequireDefault(obj) { return obj &&
obj.__esModule ? obj : { default: obj }; }\n\n\tfunction _classCallCheck(instance, Constructor) { if (!(instance
instanceof Constructor)) { throw new TypeError("Cannot call a class as a function"); } }\n\n\tfunction
_possibleConstructorReturn(self, call) { if (!self) { throw new ReferenceError("this hasn't been initialised - super()
hasn't been called"); } return call && (typeof call === "object" || typeof call === "function") ? call : self;
}\n\n\tfunction _inherits(subClass,
superClass) { if (typeof superClass !== "function" && superClass !== null) { throw new TypeError("Super
expression must either be null or a function, not " + typeof superClass); } subClass.prototype =
Object.create(superClass && superClass.prototype, { constructor: { value: subClass, enumerable: false, writable:
true, configurable: true } }); if (superClass) Object.setPrototypeOf ? Object.setPrototypeOf(subClass, superClass) :
subClass.__proto__ = superClass; }\n\n\tfunction _objectWithoutProperties(obj, keys) { var target = {}; for (var i
in obj) { if (keys.indexOf(i) >= 0) continue; if (!Object.prototype.hasOwnProperty.call(obj, i)) continue; target[i] =
obj[i]; } return target; }\n\n\tvar REQUIRED_FIELD_SYMBOL = "*";\n\n\tvar COMPONENT_TYPES = {\n\n\tarray: "ArrayField",\n\n\tboolean: "BooleanField",\n\n\tinteger: "NumberField",\n\n\tnumber:
"NumberField",\n\n\tobject: "ObjectField",\n\n\tstring: "StringField"\n\n};\n\n\tfunction
getFieldComponent(schema,
uiSchema, idSchema, fields) {\n\n\tvar field = uiSchema["ui:field"]; \n\n\tif (typeof field === "function") {\n\n\treturn field;\n\n\t}\n\n\tif (typeof field === "string" && field in fields) {\n\n\treturn fields[field];\n\n\t}\n\n\tvar
componentName = COMPONENT_TYPES[schema.type];\n\n\treturn componentName in fields ?
fields[componentName] : function () {\n\n\treturn _react2.default.createElement(_UnsupportedField2.default, {\n\n\tschema: schema,\n\n\tidSchema: idSchema,\n\n\treason: "Unknown field type " + schema.type\n\n});\n\n};\n\n}\n\n\tfunction Label(props) {\n\n\tvar label = props.label,\n\n\trequired = props.required,\n\n\tid =
props.id;\n\n\tif (!label) {\n\n\t// See #312: Ensure compatibility with old versions of React.\n\n\treturn
_react2.default.createElement("div", null);\n\n\t}\n\n\treturn _react2.default.createElement("label", {\n\n\tclassName: "control-label",\n\n\thtmlFor: id,\n\n\trequired ? label + REQUIRED_FIELD_SYMBOL
: label\n\n});\n\n}\n\n\tfunction Help(props) {\n\n\tvar help = props.help;\n\n\tif (!help) {\n\n\t// See #312:
Ensure compatibility with old versions of React.\n\n\treturn _react2.default.createElement("div", null);\n\n\t}\n\n\tif (typeof help === "string") {\n\n\treturn _react2.default.createElement("p", {\n\n\tclassName: "help-block",\n\n\t}
,\n\n\thelp\n\n});\n\n\t}\n\n\treturn _react2.default.createElement("div", {\n\n\tclassName: "help-block",\n\n\t}
,\n\n\thelp\n\n});\n\n}\n\n\tfunction ErrorList(props) {\n\n\tvar _props$errors = props.errors,\n\n\terrors =
_props$errors === undefined ? [] : _props$errors;\n\n\tif (errors.length === 0) {\n\n\treturn
_react2.default.createElement("div", null);\n\n\t}\n\n\treturn _react2.default.createElement("div", {\n\n\tnull,\n\n\t_react2.default.createElement("p", null),\n\n\t_react2.default.createElement("ul", {\n\n\tclassName: "error-detail
bs-callout bs-callout-info",\n\n\terrors.map(function (error, index) {\n\n\treturn
_react2.default.createElement("li", {\n\n\tclassName: "text-danger",\n\n\tkey: index,\n\n\t}
,\n\n\terror\n\n});\n\n});\n\n});\n\n}\n\n\tfunction DefaultTemplate(props) {\n\n\tvar id = props.id,\n\n\tclassNames =
props.classNames,\n\n\tlabel = props.label,\n\n\tchildren = props.children,\n\n\terrors = props.errors,\n\n\t

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help = props.help,\n\t description = props.description,\n\t hidden = props.hidden,\n\t required =
props.required,\n\t displayLabel = props.displayLabel;\n\t\t\n\t if (hidden) {\n\t return children;\n\t }\n\t\n\t return _react2.default.createElement(\n\t "div",\n\t { className: classNames },\n\t displayLabel &&
_react2.default.createElement(Label, { label: label, required: required, id: id }),\n\t displayLabel && description ?
description : null,\n\t children,\n\t
errors,\n\t help\n\t );\n\t}\n\t\n\t\tif (false) {\n\t DefaultTemplate.propTypes = {\n\t id:
_propTypes2.default.string,\n\t classNames: _propTypes2.default.string,\n\t label:
_propTypes2.default.string,\n\t children: _propTypes2.default.node.isRequired,\n\t errors:
_propTypes2.default.element,\n\t rawErrors: _propTypes2.default.arrayOf(_propTypes2.default.string),\n\t help:
_propTypes2.default.element,\n\t rawHelp: _propTypes2.default.oneOfType([_propTypes2.default.string,
_propTypes2.default.element]),\n\t description: _propTypes2.default.element,\n\t rawDescription:
_propTypes2.default.oneOfType([_propTypes2.default.string, _propTypes2.default.element]),\n\t hidden:
_propTypes2.default.bool,\n\t required: _propTypes2.default.bool,\n\t readonly: _propTypes2.default.bool,\n\t
displayLabel: _propTypes2.default.bool,\n\t fields: _propTypes2.default.object,\n\t formContext:
_propTypes2.default.object\n\t };\n\t}\n\t\n\tDefaultTemplate.defaultProps
= {\n\t hidden: false,\n\t readonly: false,\n\t required: false,\n\t displayLabel: true\n\t};\n\t\n\t\tfunction
SchemaFieldRender(props) {\n\t var uiSchema = props.uiSchema,\n\t formData = props.formData,\n\t
errorSchema = props.errorSchema,\n\t idSchema = props.idSchema,\n\t name = props.name,\n\t required =
props.required,\n\t _props$registry = props.registry,\n\t registry = _props$registry === undefined ? (0,
_utils.getDefaultRegistry)() : _props$registry;\n\t var definitions = registry.definitions,\n\t fields =
registry.fields,\n\t formContext = registry.formContext,\n\t _registry$FieldTempla =
registry.FieldTemplate,\n\t FieldTemplate = _registry$FieldTempla === undefined ? DefaultTemplate :
_registry$FieldTempla;\n\t\n\t var schema = (0, _utils.retrieveSchema)(props.schema, definitions, formData);\n\t
var FieldComponent = getFieldComponent(schema, uiSchema, idSchema, fields);\n\t var DescriptionField
= fields.DescriptionField;\n\t\n\t var disabled = Boolean(props.disabled || uiSchema["ui:disabled"]);
\n\t var
readonly = Boolean(props.readonly || uiSchema["ui:readonly"]);
\n\t var autofocus = Boolean(props.autofocus ||
uiSchema["ui:autofocus"]);
\n\t\n\t if (Object.keys(schema).length === 0) {\n\t // See #312: Ensure compatibility
with old versions of React.\n\t return _react2.default.createElement("div", null);\n\t }\n\t\n\t var uiOptions = (0,
_utils.getUiOptions)(uiSchema);\n\t var _uiOptions$label = uiOptions.label,\n\t displayLabel = _uiOptions$label
=== undefined ? true : _uiOptions$label;\n\t\n\t if (schema.type === "array") {\n\t displayLabel = (0,
_utils.isMultiSelect)(schema, definitions) || (0, _utils.isFilesArray)(schema, uiSchema, definitions);\n\t }\n\t
\n\t if
(schema.type === "object") {\n\t displayLabel = false;\n\t }\n\t\n\t if (schema.type === "boolean" &&
!uiSchema["ui:widget"]) {\n\t displayLabel = false;\n\t }\n\t\n\t if (uiSchema["ui:field"])
{\n\t displayLabel = false;\n\t }\n\t\n\t var __errors = errorSchema.__errors,\n\t fieldErrorSchema =
_objectWithoutProperties(errorSchema, ["__errors"]);
\n\t\n\t // See #439: uiSchema: Don't pass consumed class
names to child components\n\t\n\t var field = _react2.default.createElement(FieldComponent, _extends({},
props, {\n\t schema: schema,\n\t uiSchema: _extends({}, uiSchema, { classNames: undefined }),\n\t disabled:
disabled,\n\t readonly: readonly,\n\t autofocus: autofocus,\n\t errorSchema: fieldErrorSchema,\n\t
formContext: formContext\n\t }));
\n\t\n\t var type = schema.type;\n\t var id = idSchema.$id;\n\t var label =
uiSchema["ui:title"] || props.schema.title || schema.title || name;\n\t var description = uiSchema["ui:description"]
|| props.schema.description || schema.description;\n\t var errors = __errors;\n\t var help = uiSchema["ui:help"];
\n\t\n\t var hidden = uiSchema["ui:widget"] === "hidden";
\n\t\n\t var classNames = ["form-group", "field", "field-" + type, errors && errors.length > 0 ? "field-error has-error
has-danger" : "", uiSchema.classNames].join(" ").trim();\n\t\n\t var fieldProps = {\n\t description:
_react2.default.createElement(DescriptionField, {\n\t id: id + "__description",\n\t description:
description,\n\t formContext: formContext\n\t })),\n\t rawDescription: description,\n\t help:
_react2.default.createElement(Help, { help: help }),\n\t rawHelp: typeof help === "string" ? help : undefined,\n\t
errors: _react2.default.createElement(ErrorList, { errors: errors }),\n\t rawErrors: errors,\n\t id: id,\n\t label:

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readonly = props.readonly,\n\t autofocus = props.autofocus,\n\t registry = props.registry,\n\t
  onBlur = props.onBlur;\n\t\n\t var id = rootId + \"_\" + type;\n\t var SelectWidget =
registry.widgets.SelectWidget;\n\t\n\t return _react2.default.createElement(SelectWidget, {\n\t  schema: { type:
\"integer\" },\n\t  id: id,\n\t  className: \"form-control\",\n\t  options: { enumOptions: rangeOptions(range[0],
range[1]) },\n\t  placeholder: type,\n\t  value: value,\n\t  disabled: disabled,\n\t  readonly: readonly,\n\t
autofocus: autofocus,\n\t  onChange: function onChange(value) {\n\t    return select(type, value);\n\t  },\n\t
onBlur: onBlur\n\t });\n\t\n\t\n\t var AltDateWidget = function (_Component) {\n\t  _inherits(AltDateWidget,
_Component);\n\t\n\t function AltDateWidget(props) {\n\t  _classCallCheck(this, AltDateWidget);\n\t\n\t  var
_this = _possibleConstructorReturn(this, (AltDateWidget.__proto__ ||
Object.getPrototypeOf(AltDateWidget)).call(this, props));\n\t\n\t  _this.onChange = function (property, value) {\n\t
  _this.setState(_defineProperty({},
property, typeof value === \"undefined\" ? -1 : value), function () {\n\t    // Only propagate to parent state if we
have a complete date{time}\n\t    if (readyForChange(_this.state)) {\n\t      _this.props.onChange((0,
_utils.toDateString)(_this.state, _this.props.time));\n\t    }\n\t  });\n\t\n\t  _this.setNow = function
(event) {\n\t    event.preventDefault();\n\t    var _this$props = _this.props,\n\t        time = _this$props.time,\n\t
disabled = _this$props.disabled,\n\t        readonly = _this$props.readonly,\n\t        onChange =
_this$props.onChange;\n\t\n\t    if (disabled || readonly) {\n\t      return;\n\t    }\n\t    var nowDateObj = (0,
_utils.parseDateString)(new Date().toJSON(), time);\n\t    _this.setState(nowDateObj, function () {\n\t      return
onChange((0, _utils.toDateString)(_this.state, time));\n\t    });\n\t\n\t    _this.clear = function (event) {\n\t
event.preventDefault();\n\t
var _this$props2 = _this.props,\n\t        time = _this$props2.time,\n\t        disabled = _this$props2.disabled,\n\t
readonly = _this$props2.readonly,\n\t        onChange = _this$props2.onChange;\n\t\n\t    if (disabled ||
readonly) {\n\t      return;\n\t    }\n\t    _this.setState((0, _utils.parseDateString)(\"\", time), function () {\n\t
return onChange(undefined);\n\t    });\n\t\n\t    _this.state = (0, _utils.parseDateString)(props.value,
props.time);\n\t    return _this;\n\t  }\n\t\n\t _createClass(AltDateWidget, [{\n\t  key:
\"componentWillReceiveProps\",\n\t  value: function componentWillReceiveProps(nextProps) {\n\t
this.setState((0, _utils.parseDateString)(nextProps.value, nextProps.time));\n\t  }\n\t }, {\n\t  key:
\"shouldComponentUpdate\",\n\t  value: function shouldComponentUpdate(nextProps, nextState) {\n\t    return
(0, _utils.shouldRender)(this, nextProps, nextState);\n\t  }\n\t }, {\n\t  key: \"render\",\n\t  value: function
render() {\n\t    var _this2 = this;\n\t\n\t    var _props =
this.props,\n\t        id = _props.id,\n\t        disabled = _props.disabled,\n\t        readonly = _props.readonly,\n\t
autofocus = _props.autofocus,\n\t        registry = _props.registry,\n\t        onBlur = _props.onBlur;\n\t\n\t
return _react2.default.createElement(\n\t  \"ul\",\n\t  { className: \"list-inline\" },\n\t
this.dateElementProps.map(function (elemProps, i) {\n\t    return _react2.default.createElement(\n\t
\"li\",\n\t    { key: i },\n\t    _react2.default.createElement(DateElement, _extends({\n\t      rootId:
id,\n\t      select: _this2.onChange\n\t    }, elemProps, {\n\t      disabled: disabled,\n\t
readonly: readonly,\n\t      registry: registry,\n\t      onBlur: onBlur,\n\t      autofocus: autofocus && i
===
0\n\t    })))\n\t  );\n\t\n\t  _react2.default.createElement(\n\t    \"li\",\n\t    null,\n\t
_react2.default.createElement(\n\t      \"a\",\n\t      { href: \"#\", className: \"btn btn-info btn-now\", onClick:
this.setNow },\n\t      \"Now\"\n\t    ),\n\t    _react2.default.createElement(\n\t      \"li\",\n\t      null,\n\t
_react2.default.createElement(\n\t        \"a\",\n\t        {\n\t          href: \"#\",\n\t          className: \"btn btn-warning btn-clear\",\n\t          onClick: this.clear },\n\t        \"Clear\"\n\t      )\n\t    );\n\t  }, {\n\t  key: \"dateElementProps\",\n\t  get: function get() {\n\t    var time =
this.props.time;\n\t    var _state = this.state,\n\t        year = _state.year,\n\t        month = _state.month,\n\t
day = _state.day,\n\t        hour = _state.hour,\n\t
minute = _state.minute,\n\t        second = _state.second;\n\t\n\t    var data = [{ type: \"year\", range: [1900,
2020], value: year }, { type: \"month\", range: [1, 12], value: month }, { type: \"day\", range: [1, 31], value: day

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    });\n    \n    _react2.default.createElement(\n      \"span\",\n      null,\n      option.label\n    )\n  );\n  \n  return inline ? _react2.default.createElement(\n    \"label\",\n    { key: index, className:\n      \"checkbox-inline \" + disabledCls },\n    checkbox\n  ) : _react2.default.createElement(\n    \"div\",\n    { key: index, className: \"checkbox \" + disabledCls },\n    _react2.default.createElement(\n      \"label\",\n      null,\n      checkbox\n    )\n  );\n}\n\nCheckboxesWidget.defaultProps = {\n  autofocus: false,\n  options: {\n    inline: false\n  }\n};\n\nif (false) {\n  CheckboxesWidget.propTypes = {\n    schema:\n      _propTypes2.default.object.isRequired,\n    id: _propTypes2.default.string.isRequired,\n    options:\n      _propTypes2.default.shape({\n        enumOptions: _propTypes2.default.array,\n        inline:\n          _propTypes2.default.bool\n      }).isRequired,\n    value: _propTypes2.default.any,\n    required:\n      _propTypes2.default.bool,\n    readonly: _propTypes2.default.bool,\n    disabled: _propTypes2.default.bool,\n    multiple: _propTypes2.default.bool,\n    autofocus: _propTypes2.default.bool,\n    onChange:\n      _propTypes2.default.func\n  };}\n\nexports.default = CheckboxesWidget;\n\nfunction(module, exports, __webpack_require__) {\n  \"use strict\";\n  \n  Object.defineProperty(exports, \"__esModule\", {\n    value: true\n  });\n  \n  _extends =\n    Object.assign || function(target) {\n      for (var i = 1; i < arguments.length; i++) {\n        var source = arguments[i];\n        for (var key in source) {\n          if (Object.prototype.hasOwnProperty.call(source, key)) {\n            target[key] = source[key];\n          }\n        }\n      }\n      return target;\n    };\n  \n  _react = __webpack_require__(2);\n  \n  _react2 = _interopRequireDefault(_react);\n  \n  _propTypes = __webpack_require__(3);\n  \n  _propTypes2 = _interopRequireDefault(_propTypes);\n  \n  function _interopRequireDefault(obj) {\n    return obj && obj.__esModule ? obj : {\n      default: obj\n    };\n  }\n  \n  function ColorWidget(props) {\n    var disabled = props.disabled,\n        readonly = props.readonly,\n        BaseInput = props.registry.widgets.BaseInput;\n    \n    return _react2.default.createElement(\n      BaseInput,\n      _extends({\n        type: \"color\"\n      }, props, {\n        disabled: disabled || readonly\n      })\n    );\n  }\n  \n  if (false) {\n    ColorWidget.propTypes = {\n      schema: _propTypes2.default.object.isRequired,\n      id: _propTypes2.default.string.isRequired,\n      value: _propTypes2.default.string,\n      required: _propTypes2.default.bool,\n      disabled:\n        _propTypes2.default.bool,\n      readonly: _propTypes2.default.bool,\n      autofocus: _propTypes2.default.bool,\n      onChange:\n        _propTypes2.default.func\n    };\n  }\n  \n  exports.default = ColorWidget;\n\nfunction(module, exports, __webpack_require__) {\n  \"use strict\";\n  \n  Object.defineProperty(exports, \"__esModule\", {\n    value: true\n  });\n  \n  _extends =\n    Object.assign || function(target) {\n      for (var i = 1; i < arguments.length; i++) {\n        var source = arguments[i];\n        for (var key in source) {\n          if (Object.prototype.hasOwnProperty.call(source, key)) {\n            target[key] = source[key];\n          }\n        }\n      }\n      return target;\n    };\n  \n  _react = __webpack_require__(2);\n  \n  _react2 = _interopRequireDefault(_react);\n  \n  _propTypes = __webpack_require__(3);\n  \n  _propTypes2 = _interopRequireDefault(_propTypes);\n  \n  function _interopRequireDefault(obj) {\n    return obj && obj.__esModule ? obj : {\n      default: obj\n    };\n  }\n  \n  function DateWidget(props) {\n    var _onChange = props.onChange,\n        BaseInput = props.registry.widgets.BaseInput;\n    \n    return _react2.default.createElement(\n      BaseInput,\n      _extends({\n        type: \"date\"\n      }, props, {\n        onChange: function onChange(value) {\n          return _onChange(value || undefined);\n        }\n      })\n    );\n  }\n  \n  if (false) {\n    DateWidget.propTypes = {\n      value: _propTypes2.default.string\n    };\n  }\n  \n  exports.default = DateWidget;\n\nfunction(module, exports, __webpack_require__) {\n  \"use strict\";\n  \n  Object.defineProperty(exports, \"__esModule\", {\n    value: true\n  });\n  \n  _extends =\n    Object.assign || function(target) {\n      for (var i = 1; i < arguments.length; i++) {\n        var source = arguments[i];\n        for (var key in source) {\n          if (Object.prototype.hasOwnProperty.call(source, key)) {\n            target[key] = source[key];\n          }\n        }\n      }\n      return target;\n    };\n  \n  exports.utcToLocal = utcToLocal;\n  \n  exports.localToUTC = localToUTC;\n  \n  _react = __webpack_require__(2);\n  \n  _react2 = _interopRequireDefault(_react);\n  \n  _propTypes = __webpack_require__(3);\n  \n  _propTypes2 = _interopRequireDefault(_propTypes);\n  \n  _utils =
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__webpack_require__(8);\n\t\n\tfunction _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : {
default: obj }; }\n\t\n\tfunction utcToLocal(jsonDate) {\n\t if (!jsonDate) {\n\t return \"\";\n\t }\n\t\n\t // required
format of \"yyyy-MM-ddThh:mm\" followed by optional \":ss\" or \":ss.SSS\"\n\t //
https://html.spec.whatwg.org/multipage/input.html#local-date-and-time-state-(type%3Ddatetime-local)\n\t // >
should be a _valid local date and time string_ (not GMT)\n\t\n\t // Note - date constructor passed local ISO-8601
does not correctly\n\t // change time
to UTC in node pre-8\n\t var date = new Date(jsonDate);\n\t\n\t var yyyy = (0, _utils.pad)(date.getFullYear(),
4);\n\t var MM = (0, _utils.pad)(date.getMonth() + 1, 2);\n\t var dd = (0, _utils.pad)(date.getDate(), 2);\n\t var hh =
(0, _utils.pad)(date.getHours(), 2);\n\t var mm = (0, _utils.pad)(date.getMinutes(), 2);\n\t var ss = (0,
_utils.pad)(date.getSeconds(), 2);\n\t var SSS = (0, _utils.pad)(date.getMilliseconds(), 3);\n\t\n\t return yyyy + \"-\"
+ MM + \"-\" + dd + \"T\" + hh + \":\" + mm + \":\" + ss + \".\" + SSS;\n\t}\n\t\n\tfunction localToUTC(dateString)
{\n\t if (dateString) {\n\t return new Date(dateString).toJSON();\n\t }\n\t}\n\t\n\tfunction
DateTimeWidget(props) {\n\t var value = props.value,\n\t _onChange = props.onChange,\n\t BaseInput =
props.registry.widgets.BaseInput;\n\t\n\t return _react2.default.createElement(BaseInput, _extends({\n\t type:
\"datetime-local\"\n\t }, props, {\n\t value: utcToLocal(value),\n\t onChange: function
onChange(value) {\n\t return _onChange(localToUTC(value));\n\t }\n\t }));\n\t}\n\t\n\tif (false) {\n\t\n\t
DateTimeWidget.propTypes = {\n\t value: _propTypes2.default.string\n\t };\n\t}\n\t\n\texports.default =
DateTimeWidget;\n\t\n\t/***/ },\n\t\n\t/* 88 */\n\t\n\tfunction(module, exports, __webpack_require__) {\n\t\n\t\"use
strict\";\n\t\n\tObject.defineProperty(exports, \"__esModule\", {\n\t value: true\n\t});\n\t\n\tvar _extends =
Object.assign || function(target) { for (var i = 1; i < arguments.length; i++) { var source = arguments[i]; for (var key
in source) { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] = source[key]; } } } return target;
};\n\t\n\tvar _react = __webpack_require__(2);\n\t\n\tvar _react2 = _interopRequireDefault(_react);\n\t\n\tvar
_propTypes = __webpack_require__(3);\n\t\n\tvar _propTypes2 =
_interopRequireDefault(_propTypes);\n\t\n\tfunction _interopRequireDefault(obj) { return obj && obj.__esModule
? obj : { default: obj }; }\n\t\n\tfunction
EmailWidget(props) {\n\t var BaseInput = props.registry.widgets.BaseInput;\n\t\n\t return
_react2.default.createElement(BaseInput, _extends({ type: \"email\" }, props));\n\t}\n\t\n\tif (false) {\n\t\n\t
EmailWidget.propTypes = {\n\t value: _propTypes2.default.string\n\t };\n\t}\n\t\n\texports.default =
EmailWidget;\n\t\n\t/***/ },\n\t\n\t/* 89 */\n\t\n\tfunction(module, exports, __webpack_require__) {\n\t\n\t\"use
strict\";\n\t\n\tObject.defineProperty(exports, \"__esModule\", {\n\t value: true\n\t});\n\t\n\tvar _createClass =
function () { function defineProperties(target, props) { for (var i = 0; i < props.length; i++) { var descriptor =
props[i]; descriptor.enumerable = descriptor.enumerable || false; descriptor.configurable = true; if (!\"value\" in
descriptor) descriptor.writable = true; Object.defineProperty(target, descriptor.key, descriptor); } } return function
(Constructor, protoProps, staticProps) { if (protoProps) defineProperties(Constructor.prototype, protoProps); if
(staticProps)
defineProperties(Constructor, staticProps); return Constructor; }; }();\n\t\n\tvar _react =
__webpack_require__(2);\n\t\n\tvar _react2 = _interopRequireDefault(_react);\n\t\n\tvar _propTypes =
__webpack_require__(3);\n\t\n\tvar _propTypes2 = _interopRequireDefault(_propTypes);\n\t\n\tvar _utils =
__webpack_require__(8);\n\t\n\tfunction _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : {
default: obj }; }\n\t\n\tfunction _classCallCheck(instance, Constructor) { if (!(instance instanceof Constructor)) {
throw new TypeError(\"Cannot call a class as a function\"); } }\n\t\n\tfunction _possibleConstructorReturn(self, call)
{ if (!self) { throw new ReferenceError(\"this hasn't been initialised - super() hasn't been called\"); } return call &&
(typeof call === \"object\" || typeof call === \"function\") ? call : self; }\n\t\n\tfunction _inherits(subClass,
superClass) { if (typeof superClass !== \"function\" && superClass !== null) { throw new TypeError(\"Super
expression
must either be null or a function, not \" + typeof superClass); } subClass.prototype = Object.create(superClass &&
superClass.prototype, { constructor: { value: subClass, enumerable: false, writable: true, configurable: true } }); if
(superClass) Object.setPrototypeOf ? Object.setPrototypeOf(subClass, superClass) : subClass.__proto__ =

```



```

? obj : { default: obj }; }
function HiddenWidget(_ref) {
  var id = _ref.id,
      value = _ref.value;
  return _react2.default.createElement("input", {
    type: "hidden",
    id: id,
    value: typeof value ===
    "undefined" ? "" : value
  });
}
HiddenWidget.propTypes = {
  id: _propTypes2.default.string.isRequired,
  value: _propTypes2.default.oneOfType([
    _propTypes2.default.string,
    _propTypes2.default.number,
    _propTypes2.default.bool
  ])
};
exports.default = HiddenWidget;
function(module, exports, __webpack_require__) {
  "use strict";
  Object.defineProperty(exports, "__esModule", {
    value: true
  });
  var _extends = Object.assign || function(target) {
    for (var i = 1; i < arguments.length; i++) {
      var source = arguments[i];
      for (var key in source) {
        if (Object.prototype.hasOwnProperty.call(source, key)) {
          target[key] = source[key];
        }
      }
    }
    return target;
  };
  var _react = __webpack_require__(2);
  var _interopRequireDefault__react = _interopRequireDefault(_react);
  var _propTypes = __webpack_require__(3);
  var _propTypes2 = _interopRequireDefault(_propTypes);
  function _interopRequireDefault(obj) {
    return obj && obj.__esModule
  }
  ? obj : { default: obj }; }
function PasswordWidget(props) {
  var BaseInput =
  props.registry.widgets.BaseInput;
  return _react2.default.createElement(BaseInput, _extends({
    type: "password"
  }, props));
}
PasswordWidget.propTypes = {
  value: _propTypes2.default.string
};
exports.default = PasswordWidget;
function(module, exports, __webpack_require__) {
  "use strict";
  Object.defineProperty(exports, "__esModule", {
    value: true
  });
  var _react = __webpack_require__(2);
  var _interopRequireDefault__react = _interopRequireDefault(_react);
  var _propTypes = __webpack_require__(3);
  var _propTypes2 = _interopRequireDefault(_propTypes);
  function _interopRequireDefault(obj) {
    return obj && obj.__esModule
  }
  ? obj : { default: obj }; }
function RadioWidget(props) {
  var options = props.options,
      value =
  props.value,
      required = props.required,
      disabled = props.disabled,
      readonly = props.readonly,
      autofocus = props.autofocus,
      _onChange = props.onChange;
  // Generating a unique field name to identify this set of radio buttons
  var name = Math.random().toString();
  var enumOptions = options.enumOptions,
      inline = options.inline;
  // checked={checked} has been moved above name={name}, As mentioned in #349
  // this is a temporary fix for radio button rendering bug in React, facebook/react#7630.
  return _react2.default.createElement("div", {
    className: "field-radio-group"
  }, enumOptions.map(function(option, i) {
    var checked =
    option.value === value;
    var disabledCls = disabled || readonly ? "disabled" : "";
    var radio =
    _react2.default.createElement("span", null,
    _react2.default.createElement("input", {
      type: "radio",
      checked:
      checked,
      name: name,
      required: required,
      value: option.value,
      disabled: disabled
    || readonly,
      autoFocus: autofocus && i === 0,
      onChange: function onChange(_) {
        return
        _onChange(option.value);
      }
    }, "span", null,
    option.label
  )
  ));
  return inline ? _react2.default.createElement("label", {
    key: i,
    className: "radio-inline " + disabledCls
  }, radio
  ) :
  _react2.default.createElement("div", {
    key: i,
    className: "radio " + disabledCls
  },
  _react2.default.createElement("label", {
    key: i,
    className: "radio " + disabledCls
  },
  radio
  )
  );
}
RadioWidget.defaultProps = {
  autofocus: false
};
if (false) {
  RadioWidget.propTypes = {
    schema: _propTypes2.default.object.isRequired,
    id: _propTypes2.default.string.isRequired,
    options: _propTypes2.default.shape({
      enumOptions: _propTypes2.default.array,
      inline:
      _propTypes2.default.bool
    }).isRequired,
    value: _propTypes2.default.any,
    required:
    _propTypes2.default.bool,
    disabled: _propTypes2.default.bool,
    readonly: _propTypes2.default.bool,
    autofocus: _propTypes2.default.bool,
    onChange: _propTypes2.default.func
  };
}
exports.default =
RadioWidget;
function(module, exports, __webpack_require__) {
  "use
  strict";
  Object.defineProperty(exports, "__esModule", {
    value: true
  });
  var _extends =
  Object.assign || function(target) {
    for (var i = 1; i < arguments.length; i++) {
      var source = arguments[i];
      for (var key

```

```

in source) { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] = source[key]; } } return
target; };
var _react = __webpack_require__(2);
var _react2 =
_interopRequireDefault(_react);
var _propTypes = __webpack_require__(3);
var _propTypes2 =
_interopRequireDefault(_propTypes);
var _utils = __webpack_require__(8);
function
_interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }
function RangeWidget(props) {
  var schema = props.schema,
      value = props.value,
      BaseInput =
props.registry.widgets.BaseInput;
  return _react2.default.createElement("div", {
    className: "field-range-wrapper",
  }, _react2.default.createElement(BaseInput, _extends({ type: "range" }, props, (0,
_utils.rangeSpec)(schema))),
  _react2.default.createElement("span", {
    className: "range-view",
  }, value));
}
RangeWidget.propTypes = {
  value:
_propTypes2.default.oneOfType([_propTypes2.default.string,
_propTypes2.default.number]),
};
exports.default = RangeWidget;
function(module, exports, __webpack_require__) {
  "use strict";
  Object.defineProperty(exports, "__esModule", { value: true });
  var _react = __webpack_require__(2);
  var _react2 =
_interopRequireDefault(_react);
  var _propTypes = __webpack_require__(3);
  var _propTypes2 =
_interopRequireDefault(_propTypes);
  var _utils = __webpack_require__(8);
  function
_interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }
  * This is a silly limitation in the DOM where option change event values are always retrieved as strings.
  function processValue(_ref, value) {
    var type = _ref.type,
        items = _ref.items;
    if (value === "") return undefined;
    else if (type === "array" && items && ["number", "integer"].includes(items.type)) {
      return value.map(_utils.asNumber);
    } else if (type === "boolean") {
      return value === "true";
    } else if (type === "number") {
      return (0, _utils.asNumber)(value);
    }
    return value;
  }
  function getValue(event, multiple) {
    if (multiple) return [].slice.call(event.target.options).filter(function(o) {
      return o.selected;
    }).map(function(o) {
      return o.value;
    });
    else {
      return event.target.value;
    }
  }
  function SelectWidget(props) {
    var schema = props.schema,
        id =
props.id,
        options = props.options,
        value = props.value,
        required = props.required,
        disabled =
props.disabled,
        readonly = props.readonly,
        multiple = props.multiple,
        autofocus =
props.autofocus,
        _onChange = props.onChange,
        onBlur = props.onBlur,
        onFocus =
props.onFocus,
        placeholder = props.placeholder;
    var enumOptions = options.enumOptions,
        enumDisabled = options.enumDisabled;
    var emptyValue =
multiple ? [] : "";
    return _react2.default.createElement("select", {
      id: id,
      multiple:
multiple,
      className: "form-control",
      value: typeof value === "undefined" ? emptyValue : value,
      required: required,
      disabled: disabled || readonly,
      autoFocus: autofocus,
      onBlur: onBlur && function(event) {
        var newValue = getValue(event, multiple);
        onBlur(id, processValue(schema, newValue));
      },
      onFocus: onFocus && function(event) {
        var newValue = getValue(event, multiple);
        onFocus(id, processValue(schema, newValue));
      },
      onChange: function onChange(event) {
        var newValue = getValue(event, multiple);
        _onChange(processValue(schema, newValue));
      }
    }, !multiple && !schema.default
    && _react2.default.createElement("option", {
      value: "",
      placeholder: "",
    }, enumOptions.map(function(_ref2, i) {
      var value = _ref2.value,
          label = _ref2.label;
      var disabled = enumDisabled && enumDisabled.indexOf(value) !== -1;
      return _react2.default.createElement("option", {
        key: i,
        value: value,
        disabled: disabled,
        label: label,
      });
    }));
  }
  SelectWidget.defaultProps = {
    autofocus: false,
  };
  SelectWidget.propTypes = {
    schema: _propTypes2.default.object.isRequired,
    id: _propTypes2.default.string.isRequired,
    options: _propTypes2.default.shape({
      enumOptions: _propTypes2.default.array,
    }).isRequired,
    value: _propTypes2.default.any,
    required: _propTypes2.default.bool,
    disabled:
_propTypes2.default.bool,
    readonly: _propTypes2.default.bool,
  };
}

```



```

in source) { if (Object.prototype.hasOwnProperty.call(source,
  key)) { target[key] = source[key]; } } } return target; };
__react = __webpack_require__(2);
__react2 = __interopRequireDefault(__react);
__propTypes = __webpack_require__(3);
__propTypes2 = __interopRequireDefault(__propTypes);
__utils = __webpack_require__(8);
function __interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }
function UpDownWidget(props) {
  var BaseInput = props.registry.widgets.BaseInput;
  return __react2.default.createElement(BaseInput, __extends({ type: "number" }, props, (0, __utils.rangeSpec)(props.schema)));
  if (false) {
    UpDownWidget.propTypes = {
      value: __propTypes2.default.oneOfType([__propTypes2.default.number, __propTypes2.default.string])
    };
    exports.default = UpDownWidget;
  }
}
// WEBPACK FOOTER //
react-jsonschema-form.js",
  // The module cache
  installedModules = { };
  // The require function
  function __webpack_require__(moduleId) {
    // Check if module is in cache
    if (!installedModules[moduleId]) {
      // Create a new module (and put it into the cache)
      installedModules[moduleId] = {
        exports: {},
        loaded: false,
        __esModule: true
      };
      // Execute the module function
      installedModules[moduleId].call(installedModules[moduleId].exports, __webpack_require__);
      // Flag the module as loaded
      installedModules[moduleId].loaded = true;
      // Return the exports of the module
      return installedModules[moduleId].exports;
    }
    // expose the modules object (__webpack_modules__)
    __webpack_require__.m = modules;
    // expose the module cache
    __webpack_require__.c = installedModules;
    // Load entry module and return exports
    return __webpack_require__(0);
  }
  // webpack/bootstrap 2f229745fb205a87841b",
  import Form from './components/Form';
  export default Form;
  // WEBPACK FOOTER //
  .index.js",
  import React, { Component } from 'react';
  import PropTypes from 'prop-types';
  import { default as DefaultErrorList } from './ErrorList';
  import {
    getDefaultFormState,
    shouldRender,
    toIdSchema,
    setState,
    getDefaultRegistry,
  } from '../utils';
  import validateFormData from './validate';
  export default class Form extends Component {
    static defaultProps = {
      uiSchema: {},
      noValidate: false,
      liveValidate: false,
      safeRenderCompletion: false,
      noHtml5Validate: false,
      ErrorList: DefaultErrorList,
    };
    constructor(props) {
      super(props);
      this.state = this.getStateFromProps(props);
    }
    componentWillReceiveProps(nextProps) {
      this.setState(this.getStateFromProps(nextProps));
    }
    getStateFromProps(props) {
      const state = this.state || {};
      const schema = 'schema' in props ? props.schema : this.props.schema;
      const uiSchema = 'uiSchema' in props ? props.uiSchema : this.props.uiSchema;
      const edit = typeof props.formData !== 'undefined';
      const liveValidate = props.liveValidate || this.props.liveValidate;
      const mustValidate = edit && !props.noValidate && liveValidate;
      const { definitions } = schema;
      const formData = getDefaultFormState(schema, props.formData, definitions);
      const { errors, errorSchema } = mustValidate ? this.validate(formData, schema) : {
        errors: state.errors || [],
        errorSchema: state.errorSchema || {},
      };
      const idSchema = toIdSchema(schema, uiSchema['ui:rootFieldId'], definitions, formData);
      return {
        schema,
        uiSchema,
        idSchema,
        formData,
        edit,
        errors,
        errorSchema,
      };
    }
    shouldComponentUpdate(nextProps, nextState) {
      return shouldRender(this, nextProps, nextState);
    }
    validate(formData, schema) {
      const { validate, transformErrors } = this.props;
      return validate(formData, schema || this.props.schema, validate, transformErrors);
    }
    renderErrors() {
      const { errors, errorSchema, schema, uiSchema } = this.state;
      const { ErrorList, showErrorList, formContext } = this.props;
      if (errors.length && showErrorList !== false) {
        return (
          <ErrorList errors={errors} errorSchema={errorSchema} schema={schema} uiSchema={uiSchema} formContext={formContext} />
        );
      }
      return null;
    }
    onChange = (formData, options = { validate: false }) => {
      const mustValidate = !this.props.noValidate && (this.props.liveValidate ||

```





```

additional grant\n * of patent rights can be found in the PATENTS file in the same directory.\n *\n\nif
(process.env.NODE_ENV !== 'production')
  {\n var REACT_ELEMENT_TYPE = (typeof Symbol === 'function' &&\n Symbol.for &&\n
Symbol.for('react.element')) ||\n 0x66666666;\n var isValidElement = function(object) {\n return typeof object ===
'object' &&\n object !== null &&\n object.$$typeof === REACT_ELEMENT_TYPE;\n };\n\n // By
explicitly using `prop-types` you are opting into new development behavior.\n // http://fb.me/prop-types-in-prod\n
var throwOnDirectAccess = true;\n module.exports = require('./factoryWithTypeCheckers')(isValidElement,
throwOnDirectAccess);\n } else {\n // By explicitly using `prop-types` you are opting into new production
behavior.\n // http://fb.me/prop-types-in-prod\n module.exports =
require('./factoryWithThrowingShims')();\n}\n\n\n\n// WEBPACK FOOTER //\n\n../~/prop-types/index.js", "/*\n *
Copyright 2013-present, Facebook, Inc.\n * All rights reserved.\n *\n * This source code is licensed under the BSD-
style license found in the\n * LICENSE file in the root directory of
this source tree. An additional grant\n * of patent rights can be found in the PATENTS file in the same directory.\n
*\n\n'use strict';\n\n\nvar emptyFunction = require('fbjs/lib/emptyFunction');\n\nvar invariant =
require('fbjs/lib/invariant');\n\nmodule.exports = function() {\n // Important!\n // Keep this list in sync with
production version in `./factoryWithTypeCheckers.js`.\n function shim() {\n invariant(\n false,\n 'Calling
PropTypes validators directly is not supported by the `prop-types` package. ' +\n 'Use
PropTypes.checkPropTypes() to call them. ' +\n 'Read more at http://fb.me/use-check-prop-types'\n );\n };\n
shim.isRequired = shim;\n function getShim() {\n return shim;\n };\n var ReactPropTypes = {\n array: shim,\n
bool: shim,\n func: shim,\n number: shim,\n object: shim,\n string: shim,\n symbol: shim,\n\n any:
shim,\n arrayOf: getShim,\n element: shim,\n instanceOf: getShim,\n node: shim,\n objectOf:
getShim,\n oneOf: getShim,\n oneOfType: getShim,\n shape: getShim\n };\n\n
ReactPropTypes.checkPropTypes = emptyFunction;\n ReactPropTypes.PropTypes = ReactPropTypes;\n\n return
ReactPropTypes;\n};\n\n\n\n// WEBPACK FOOTER //\n\n../~/prop-types/factoryWithThrowingShims.js", "use
strict";\n\n\n\n * Copyright (c) 2013-present, Facebook, Inc.\n * All rights reserved.\n *\n * This source code is
licensed under the BSD-style license found in the\n * LICENSE file in the root directory of this source tree. An
additional grant\n * of patent rights can be found in the PATENTS file in the same directory.\n *\n *\n
*\n\nfunction makeEmptyFunction(arg) {\n return function () {\n return arg;\n };\n}\n\n\n\n * This function
accepts and discards inputs; it has no side effects. This is\n * primarily useful idiomatically for overridable function
endpoints which\n * always need to be callable, since JS lacks a null-call idiom ala Cocoa.\n *\n\n\nvar emptyFunction
= function emptyFunction()
{};\n\n\nemptyFunction.thatReturns = makeEmptyFunction;\n\nemptyFunction.thatReturnsFalse =
makeEmptyFunction(false);\n\nemptyFunction.thatReturnsTrue =
makeEmptyFunction(true);\n\nemptyFunction.thatReturnsNull =
makeEmptyFunction(null);\n\nemptyFunction.thatReturnsThis = function () {\n return
this;\n};\n\nemptyFunction.thatReturnsArgument = function (arg) {\n return arg;\n};\n\n\nmodule.exports =
emptyFunction;\n\n\n\n// WEBPACK FOOTER //\n\n../~/fbjs/lib/emptyFunction.js", "/*\n * Copyright (c) 2013-
present, Facebook, Inc.\n * All rights reserved.\n *\n * This source code is licensed under the BSD-style license
found in the\n * LICENSE file in the root directory of this source tree. An additional grant\n * of patent rights can
be found in the PATENTS file in the same directory.\n *\n *\n\n'use strict';\n\n\n * Use invariant() to assert state
which your program assumes to be true.\n *\n * Provide sprintf-style format (only %s is supported) and arguments\n
* to provide information
about what broke and what you were\n * expecting.\n *\n * The invariant message will be stripped in production,
but the invariant\n * will remain to ensure logic does not differ in production.\n *\n\n\n\nvar validateFormat = function
validateFormat(format) {};\n\n\nif (process.env.NODE_ENV !== 'production') {\n validateFormat = function
validateFormat(format) {\n if (format === undefined) {\n throw new Error('invariant requires an error message
argument');\n }\n };\n}\n\n\n\nfunction invariant(condition, format, a, b, c, d, e, f) {\n validateFormat(format);\n\n
if (!condition) {\n var error;\n if (format === undefined) {\n error = new Error('Minified exception occurred;
```

```

use the non-minified dev environment ' + 'for the full error message and additional helpful warnings.);\n  } else {\n
  var args = [a, b, c, d, e, f];\n  var argIndex = 0;\n  error = new Error(format.replace(/%s/g, function () {\n
return args[argIndex++];\n  }));\n  error.name
= 'Invariant Violation';\n  }\n\n  error.framesToPop = 1; // we don't care about invariant's own frame\n  throw
error;\n  }\n}\n\nmodule.exports = invariant;\n\n// WEBPACK FOOTER //\n\n../fbjs/lib/invariant.js", "import
React from 'react';\n\nexport default function ErrorList(props) {\n  const { errors } = props;\n  return (\n    <div
className="panel panel-danger errors">\n    <div className="panel-heading">\n      <h3 className="panel-
title">Errors</h3>\n    </div>\n    <ul className="list-group">\n      {errors.map((error, i) => {\n    return
(\n      <li key={i} className="list-group-item text-danger">\n        {error.stack}\n      </li>\n    );\n
  })}\n    </ul>\n  </div>\n);}\n\n// WEBPACK FOOTER //\n\n../components/ErrorList.js", "import React
from 'react';\n\nimport 'setimmediate';\n\nimport validateFormData from './validate';\n\nconst widgetMap = {\n
boolean: {\n  checkbox: 'CheckboxWidget',\n
  radio: 'RadioWidget',\n  select: 'SelectWidget',\n  hidden: 'HiddenWidget',\n },\n  string: {\n  text:
'TextWidget',\n  password: 'PasswordWidget',\n  email: 'EmailWidget',\n  hostname: 'TextWidget',\n
  ipv4: 'TextWidget',\n  ipv6: 'TextWidget',\n  uri: 'URLWidget',\n  'data-url': 'FileWidget',\n  radio:
'RadioWidget',\n  select: 'SelectWidget',\n  textarea: 'TextareaWidget',\n  hidden: 'HiddenWidget',\n
  date: 'DateWidget',\n  datetime: 'DateTimeWidget',\n  'date-time': 'DateTimeWidget',\n  'alt-date':
'AltDateWidget',\n  'alt-datetime': 'AltDateTimeWidget',\n  color: 'ColorWidget',\n  file:
'FileWidget',\n },\n  number: {\n  text: 'TextWidget',\n  select: 'SelectWidget',\n  updown:
'UpDownWidget',\n  range: 'RangeWidget',\n  radio: 'RadioWidget',\n  hidden: 'HiddenWidget',\n },\n
  integer: {\n  text: 'TextWidget',\n  select: 'SelectWidget',\n  updown:
'UpDownWidget',\n  range: 'RangeWidget',\n  radio: 'RadioWidget',\n  hidden: 'HiddenWidget',\n },\n
  array: {\n  select: 'SelectWidget',\n  checkboxes: 'CheckboxesWidget',\n  files: 'FileWidget',\n
},\n};\n\nexport function getDefaultRegistry() {\n  return {\n    fields: require('./components/fields').default,\n
widgets: require('./components/widgets').default,\n    definitions: {},\n    formContext: {},\n  };}\n\nexport
function getWidget(schema, widget, registeredWidgets = {}) {\n  const { type } = schema;\n\n  function
mergeOptions(Widget) {\n    // cache return value as property of widget for proper react reconciliation\n    if
(!Widget.MergedWidget) {\n      const defaultOptions =\n        (Widget.defaultProps &&
Widget.defaultProps.options) || {};\n      Widget.MergedWidget = ({ options = {}, ...props }) => (\n        <Widget
options={{ ...defaultOptions, ...options }} {...props} />\n      );\n    }\n    return Widget.MergedWidget;\n  }\n\n  if (typeof widget === 'function') {\n    return mergeOptions(widget);\n  }\n\n  if (typeof widget !== 'string')\n    {\n    throw new Error('Unsupported widget definition: ' + typeof widget);\n  }\n\n  if
(registeredWidgets.hasOwnProperty(widget)) {\n    const registeredWidget = registeredWidgets[widget];\n    return
getWidget(schema, registeredWidget, registeredWidgets);\n  }\n\n  if (!widgetMap.hasOwnProperty(type)) {\n
throw new Error('No widget for type \'' + type + '\');\n  }\n\n  if (widgetMap[type].hasOwnProperty(widget)) {\n
const registeredWidget = registeredWidgets[widgetMap[type][widget]]; \n    return getWidget(schema,
registeredWidget, registeredWidgets);\n  }\n\n  throw new Error('No widget \'' + widget + '\'' for type
 \'' + type + '\');\n}\n\nfunction computeDefaults(schema, parentDefaults, definitions = {}) {\n  // Compute the
defaults recursively: give highest priority to deepest nodes.\n  let defaults = parentDefaults;\n  if (isObject(defaults)
&& isObject(schema.default))\n    {\n    // For object defaults, only override parent defaults that are defined in\n    // schema.default.\n    defaults =
mergeObjects(defaults, schema.default);\n  } else if ("default" in schema) {\n    // Use schema defaults for this
node.\n    defaults = schema.default;\n  } else if ("$ref" in schema) {\n    // Use referenced schema defaults for this
node.\n    const refSchema = findSchemaDefinition(schema.$ref, definitions);\n    return
computeDefaults(refSchema, defaults, definitions);\n  } else if (isFixedItems(schema)) {\n    defaults =
schema.items.map(itemSchema =>\n      computeDefaults(itemSchema, undefined, definitions)\n    );\n  }\n\n  // Not
defaults defined for this node, fallback to generic typed ones.\n  if (typeof defaults === 'undefined') {\n    defaults
= schema.default;\n  }\n\n  switch (schema.type) {\n    // We need to recur for object schema inner default values.\n

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case \"object\":\n    return Object.keys(schema.properties || {}).reduce((acc, key) =>
    {\n        // Compute the defaults for this node, with the parent defaults we might\n        // have from a previous run:
        defaults[key].\n        acc[key] = computeDefaults(\n            schema.properties[key],\n            (defaults || {})[key],\n            definitions\n        );\n        return acc;\n    }, {});\n\n    case \"array\":\n        if (schema.minItems) {\n            if
            (!isMultiSelect(schema, definitions)) {\n                const defaultsLength = defaults ? defaults.length : 0;\n                if
                (schema.minItems > defaultsLength) {\n                    const defaultEntries = defaults || [];\n                    // populate the array
                    with the defaults\n                    const fillerEntries = new Array(\n                        schema.minItems - defaultsLength\n                    ).fill(\n                        computeDefaults(schema.items, schema.items.defaults, definitions)\n                    );\n                    // then fill up
                    the rest with either the item default or empty, up to minItems\n                    return defaultEntries.concat(fillerEntries);\n                }
            } else {\n                return [];\n            }\n        }\n    }\n\n    return defaults;\n}\n\nexport function
getDefaultFormState(_schema, formData, definitions = {}) {\n    if (!isObject(_schema)) {\n        throw new
        Error(\"Invalid schema: \" + _schema);\n    }\n    const schema = retrieveSchema(_schema, definitions, formData);\n    const defaults = computeDefaults(schema, _schema.default, definitions);\n    if (typeof formData === \"undefined\")
    {\n        // No form data? Use schema defaults.\n        return defaults;\n    }\n    if (isObject(formData)) {\n        // Override
        schema defaults with form data.\n        return mergeObjects(defaults, formData);\n    }\n    return formData ||
    defaults;\n}\n\nexport function getUiOptions(uiSchema) {\n    // get all passed options from ui:widget, ui:options, and
    ui:<optionName>\n    return Object.keys(uiSchema)\n        .filter(key => key.indexOf(\"ui:\") === 0)\n        .reduce((options, key) => {\n            const value = uiSchema[key];\n            if (key === \"ui:widget\" && isObject(value))
            {\n                console.warn(\n                    \"Setting options via ui:widget object is deprecated, use ui:options instead\"\n                );\n            }\n            return {\n                ...options,\n                ...(value.options || {}),\n                widget: value.component,\n            };
        }, {});\n\n    if (key === \"ui:options\" && isObject(value)) {\n        return { ...options, ...value };
    }\n    return {
    ...options, [key.substring(3): value ];
    }, {});\n}\n\nexport function isObject(thing) {\n    return typeof thing ===
    \"object\" && thing !== null && !Array.isArray(thing);\n}\n\nexport function mergeObjects(obj1, obj2,
concatArrays = false) {\n    // Recursively merge deeply nested objects.\n    var acc = Object.assign({}, obj1); //
    Prevent mutation of source object.\n    return Object.keys(obj2).reduce((acc, key) => {\n        const left = obj1[key],\n        right = obj2[key];\n        if (obj1.hasOwnProperty(key) && isObject(right)) {\n            acc[key] = mergeObjects(left, right,
            concatArrays);\n        } else
        if (concatArrays && Array.isArray(left) && Array.isArray(right)) {\n            acc[key] = left.concat(right);\n        } else
        {\n            acc[key] = right;\n        }\n        return acc;\n    }, acc);\n}\n\nexport function asNumber(value) {\n    if (value ===
    \"\") {\n        return undefined;\n    }\n    if (/^\\.?$/.test(value)) {\n        // \"3.\" can't really be considered a number even if it
        parses in js. The\n        // user is most likely entering a float.\n        return value;\n    }\n    if (/^\\.0?$/.test(value)) {\n        // we
        need to return this as a string here, to allow for input like 3.07\n        return value;\n    }\n    const n = Number(value);\n    const valid = typeof n === \"number\" && !Number.isNaN(n);\n    if (/^\\.\\d*0?$/.test(value)) {\n        // It's a number,
        that's cool - but we need it as a string so it doesn't screw\n        // with the user when entering dollar amounts or other
        values (such as those with\n        // specific precision or number of significant digits)\n        return value;\n    }\n    return
    valid ? n : value;\n}\n\nexport
function orderProperties(properties, order) {\n    if (!Array.isArray(order)) {\n        return properties;\n    }\n\n    const
    arrayToHash = arr =>{\n        arr.reduce((prev, curr) => {\n            prev[curr] = true;\n            return prev;\n        }, {});\n    }\n    const
    errorPropList = arr =>{\n        arr.length > 1\n        ? `properties ${arr.join(\"\", \" \")}^\n        : `property ${arr[0]}^\n    }\n    const
    propertyHash = arrayToHash(properties);\n    const orderHash = arrayToHash(order);\n    const extraneous =
    order.filter(prop => prop !== \"*\" && !propertyHash[prop]);\n    if (extraneous.length) {\n        throw new Error(\n            `uiSchema order list contains extraneous ${errorPropList(extraneous)}^\n        );\n    }\n\n    const rest =
    properties.filter(prop => !orderHash[prop]);\n    const restIndex = order.indexOf(\"*\");\n    if (restIndex === -1) {\n        if
        (rest.length) {\n            throw new Error(\n                `uiSchema order list does not contain ${errorPropList(rest)}^\n            );\n        }\n        return order;\n    }\n    if (restIndex !==
    order.lastIndexOf(\"*\")) {\n        throw new Error(`uiSchema order list contains more than one wildcard item`);\n    }\n\n    const complete = [...order];\n    complete.splice(restIndex, 1, ...rest);\n    return complete;\n}\n\n/**\n * This
    function checks if the given schema matches a single\n    * constant value.\n    */\nexport function isConstant(schema)

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{\n return (\n (Array.isArray(schema.enum) && schema.enum.length === 1) ||\n
schema.hasOwnProperty("const"))\n );\n}\n\n\nexport function toConstant(schema) {\n if
(Array.isArray(schema.enum) && schema.enum.length === 1) {\n return schema.enum[0];\n } else if
(schema.hasOwnProperty("const")) {\n return schema.const;\n } else {\n throw new Error("schema cannot be
inferred as a constant");\n }\n}\n\n\nexport function isSelect(_schema, definitions = {}) {\n const schema =
retrieveSchema(_schema, definitions);\n const altSchemas = schema.oneOf || schema.anyOf;\n if
(Array.isArray(schema.enum)) {\n return true;\n } else
if (Array.isArray(altSchemas)) {\n return altSchemas.every(altSchemas => isConstant(altSchemas));\n }\n return
false;\n}\n\n\nexport function isMultiSelect(schema, definitions = {}) {\n if (!schema.uniqueItems || !schema.items)
{\n return false;\n }\n return isSelect(schema.items, definitions);\n}\n\n\nexport function isFilesArray(schema,
uiSchema, definitions = {}) {\n if (uiSchema["ui:widget"] === "files") {\n return true;\n } else if
(schema.items) {\n const itemsSchema = retrieveSchema(schema.items, definitions);\n return itemsSchema.type
=== "string" && itemsSchema.format === "data-url";\n }\n return false;\n}\n\n\nexport function
isFixedItems(schema) {\n return (\n Array.isArray(schema.items) &&\n schema.items.length > 0 &&\n
schema.items.every(item => isObject(item))\n );\n}\n\n\nexport function allowAdditionalItems(schema) {\n if
(schema.additionalItems === true) {\n console.warn("additionalItems=true is currently not supported");\n }\n
return isObject(schema.additionalItems);\n}\n\n\nexport function optionsList(schema) {\n if (schema.enum) {\n
return schema.enum.map((value, i) => {\n const label = (schema.enumNames && schema.enumNames[i]) ||
String(value);\n return { label, value };\n });\n } else {\n const altSchemas = schema.oneOf ||
schema.anyOf;\n return altSchemas.map((schema, i) => {\n const value = toConstant(schema);\n const label
= schema.title || String(value);\n return { label, value };\n });\n }\n}\n\n\nfunction findSchemaDefinition($ref,
definitions = {}) {\n // Extract and use the referenced definition if we have it.\n const match =
/^#\//definitions\//(.*)$/\.exec($ref);\n if (match && match[1]) {\n const parts = match[1].split("/");\n let
current = definitions;\n for (let part of parts) {\n part = part.replace(/~/g, "\\").replace(/~/g, "\\");\n if
(current.hasOwnProperty(part)) {\n current = current[part];\n } else {\n
// No matching definition found, that's an error (bogus schema?)\n throw new Error("Could not find a
definition for ${$ref}.");\n }\n }\n return current;\n }\n\n // No matching definition found, that's an error
(bogus schema?)\n throw new Error("Could not find a definition for ${$ref}.");\n}\n\n\nexport function
retrieveSchema(schema, definitions = {}, formData = {}) {\n if (schema.hasOwnProperty("$ref")) {\n //
Retrieve the referenced schema definition.\n const $refSchema = findSchemaDefinition(schema.$ref,
definitions);\n // Drop the $ref property of the source schema.\n const { $ref, ...localSchema } = schema;\n //
Update referenced schema definition with local schema properties.\n return retrieveSchema(\n { ...$refSchema,
...localSchema },\n definitions,\n formData\n );\n } else if (schema.hasOwnProperty("dependencies")) {\n
const resolvedSchema = resolveDependencies(schema, definitions, formData);\n return
retrieveSchema(resolvedSchema,
definitions, formData);\n } else {\n // No $ref or dependencies attribute found, returning the original schema.\n
return schema;\n }\n}\n\n\nfunction resolveDependencies(schema, definitions, formData) {\n // Drop the
dependencies from the source schema.\n let { dependencies = {}, ...resolvedSchema } = schema;\n // Process
dependencies updating the local schema properties as appropriate.\n for (const dependencyKey in dependencies) {\n
// Skip this dependency if its trigger property is not present.\n if (formData[dependencyKey] === undefined) {\n
continue;\n }\n const dependencyValue = dependencies[dependencyKey];\n if
(Array.isArray(dependencyValue)) {\n resolvedSchema = withDependentProperties(resolvedSchema,
dependencyValue);\n } else if (isObject(dependencyValue)) {\n resolvedSchema = withDependentSchema(\n
resolvedSchema,\n definitions,\n formData,\n dependencyKey,\n dependencyValue\n
);\n }\n }\n return resolvedSchema;\n}\n\n\nfunction withDependentProperties(schema, additionallyRequired)
{\n if (!additionallyRequired) {\n return schema;\n }\n const required = Array.isArray(schema.required) ?
Array.from(new Set([...schema.required, ...additionallyRequired]))\n : additionallyRequired;\n return { ...schema,
required: required };\n}\n\n\nfunction withDependentSchema(\n schema,\n definitions,\n formData,\n

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dependencyKey,\n dependencyValue\n) {\n let { oneOf, ...dependentSchema } = retrieveSchema(\n
dependencyValue,\n definitions,\n formData\n );\n schema = mergeSchemas(schema, dependentSchema);\n
return oneOf === undefined\n ? schema\n : withExactlyOneSubschema(\n schema,\n definitions,\n
formData,\n dependencyKey,\n oneOf\n );\n}\n\nfunction withExactlyOneSubschema(\n schema,\n
definitions,\n formData,\n dependencyKey,\n oneOf\n) {\n if (!Array.isArray(oneOf)) {\n throw
new Error(\n `invalid oneOf: it is some ${typeof oneOf} instead of an array`\n );\n }\n const
validSubschemas = oneOf.filter(subschema => {\n if (!subschema.properties) {\n return false;\n
}\n const {
[dependencyKey]: conditionPropertySchema } = subschema.properties;\n if (conditionPropertySchema) {\n
const conditionSchema = {\n type: \"object\", \n properties: {\n [dependencyKey]:
conditionPropertySchema,\n },\n }; \n const { errors } = validateFormData(formData,
conditionSchema);\n return errors.length === 0;\n });\n }\n if (validSubschemas.length !== 1) {\n
console.warn(\n `ignoring oneOf in dependencies because there isn't exactly one subschema that is valid`\n
);\n return schema;\n }\n const subschema = validSubschemas[0];\n const {\n [dependencyKey]:
conditionPropertySchema,\n ...dependentSubschema\n } = subschema.properties;\n const dependentSchema = {
...subschema, properties:
dependentSubschema };\n return mergeSchemas(\n schema,\n retrieveSchema(dependentSchema, definitions,
formData)\n );\n}\n\nfunction mergeSchemas(schema1, schema2) {\n return mergeObjects(schema1, schema2,
true);\n}\n\nfunction isArguments(object) {\n return Object.prototype.toString.call(object) === `[object
Arguments]`;}\n\nfunction deepEquals(a, b, ca = [], cb = []) {\n // Partially extracted from node-deeper
and adapted to exclude comparison\n // checks for functions.\n // https://github.com/othiym23/node-deeper\n if (a
=== b) {\n return true;\n } else if (typeof a === \"function\" || typeof b === \"function\") {\n // Assume all
functions are equivalent\n // see https://github.com/mozilla-services/react-jsonschema-form/issues/255\n return
true;\n } else if (typeof a !== \"object\" || typeof b !== \"object\") {\n return false;\n } else if (a === null || b ===
null) {\n return false;\n } else if (a instanceof Date && b instanceof Date) {\n return
a.getTime() === b.getTime();\n } else if (a instanceof RegExp && b instanceof RegExp) {\n return
(a.source === b.source &&\n a.global === b.global &&\n a.multiline === b.multiline &&\n
a.lastIndex === b.lastIndex &&\n a.ignoreCase === b.ignoreCase\n );\n } else if (isArguments(a) ||
isArguments(b)) {\n if (!(isArguments(a) && isArguments(b))) {\n return false;\n }\n let slice =
Array.prototype.slice;\n return deepEquals(slice.call(a), slice.call(b), ca, cb);\n } else {\n if (a.constructor !==
b.constructor) {\n return false;\n }\n let ka = Object.keys(a);\n let kb = Object.keys(b);\n // don't bother
with stack acrobatics if there's nothing there\n if (ka.length === 0 && kb.length === 0) {\n return true;\n }\n
if (ka.length !== kb.length) {\n return false;\n }\n let cal = ca.length;\n while (cal--)\n if (ca[cal]
=== a) {\n return cb[cal] === b;\n }\n }\n }\n ca.push(a);\n cb.push(b);\n ka.sort();\n kb.sort();\n for (var j = ka.length - 1; j >= 0; j--) {\n
if (ka[j] !== kb[j]) {\n return false;\n }\n }\n let key;\n for (let k = ka.length - 1; k >= 0; k--) {\n
key = ka[k];\n if (!deepEquals(a[key], b[key], ca, cb)) {\n return false;\n }\n }\n ca.pop();\n
cb.pop();\n return true;\n }\n}\n\nfunction shouldRender(comp, nextProps, nextState) {\n const { props,
state } = comp;\n return !deepEquals(props, nextProps) || !deepEquals(state, nextState);\n}\n\nfunction
toIdSchema(schema, id, definitions, formData = {}) {\n const idSchema = {\n $id: id || \"root\", \n }; \n if (\"$ref\"
in schema) {\n const _schema = retrieveSchema(schema, definitions, formData);\n return toIdSchema(_schema,
id, definitions, formData);\n }\n if (\"items\" in schema && !schema.items.$ref) {\n return
toIdSchema(schema.items, id, definitions, formData);\n }\n }\n if (schema.type !== \"object\") {\n return idSchema;\n }\n for (const name in schema.properties) {\n }\n const field = schema.properties[name];\n const fieldId = idSchema.$id + \"_\" + name;\n idSchema[name] =
toIdSchema(field, fieldId, definitions, formData[name]);\n }\n return idSchema;\n}\n\nfunction
parseDateString(dateString, includeTime = true) {\n if (!dateString) {\n return {\n year: -1,\n month: -1,\n
day: -1,\n hour: includeTime ? -1 : 0,\n minute: includeTime ? -1 : 0,\n second: includeTime ? -1 : 0,\n
};\n }\n const date = new Date(dateString);\n if (Number.isNaN(date.getTime())) {\n throw new Error(\"Unable

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to parse date ` ` + dateString);
}
return {
  year: date.getUTCFullYear(),
  month: date.getUTCMonth() + 1,
  // oh you, javascript.
  day: date.getUTCDate(),
  hour: includeTime ? date.getUTCHours() : 0,
  minute:
includeTime ? date.getUTCMinutes() : 0,
  second: includeTime
? date.getUTCSeconds() : 0,
};
}

export function toDateString({ year, month, day, hour = 0, minute = 0,
second = 0 }, time = true) {
  const utcTime = Date.UTC(year, month - 1, day, hour, minute, second);
  const datetime = new Date(utcTime).toISOString();
  return time ? datetime : datetime.slice(0, 10);
}

export function pad(num, size) {
  let s = String(num);
  while (s.length < size) {
    s = `0${s}`;
  }
  return s;
}

export function setState(instance, state, callback) {
  const { safeRenderCompletion } = instance.props;
  if (safeRenderCompletion) {
    instance.setState(state, callback);
  } else {
    instance.setState(state);
    setImmediate(callback);
  }
}

export function dataURIToBlob(dataURI) {
  // Split metadata from data
  const splitted = dataURI.split(",");
  // Split params
  const params = splitted[0].split(";");
  // Get mime-type
  from params
  const type = params[0].replace("data:", "");
  // Filter
  the name property from params
  const properties = params.filter(param => {
    return param.split("=")[0] ===
    "name";
  });
  // Look for the name and use unknown if no name property.
  let name;
  if (properties.length
  !== 1) {
    name = "unknown";
  } else {
    // Because we filtered out the other property,
    // we only have
    the name case here.
    name = properties[0].split("=")[1];
  }
  // Built the Uint8Array Blob parameter from
  the base64 string.
  const binary = atob(splitted[1]);
  const array = [];
  for (let i = 0; i < binary.length; i++) {
    array.push(binary.charCodeAt(i));
  }
  // Create the blob object
  const blob = new window.Blob([new
  Uint8Array(array)], { type });
  return { blob, name };
}

export function rangeSpec(schema) {
  const spec
  = {};
  if (schema.multipleOf) {
    spec.step = schema.multipleOf;
  }
  if (schema.minimum ||
  schema.minimum === 0) {
    spec.min = schema.minimum;
  }
  if (schema.maximum ||
  schema.maximum === 0) {
    spec.max = schema.maximum;
  }
  return spec;
}

// WEBPACK
FOOTER //n// ./utils.js", "var nextTick = require('process/browser.js').nextTick;
nvar apply =
Function.prototype.apply;
nvar slice = Array.prototype.slice;
nvar immediateIds = {};
nvar nextImmediateId =
0;
// DOM APIs, for completeness
nexports.setTimeout = function() {
  return new
  Timeout(apply.call(setTimeout, window, arguments), clearTimeout);
};
nexports.setInterval = function() {
  return new
  Timeout(apply.call(setInterval, window, arguments), clearInterval);
};
nexports.clearTimeout
=
nexports.clearInterval = function(timeout) {
  timeout.close();
};
nfunction Timeout(id, clearFn) {
  this._id =
  id;
  this._clearFn = clearFn;
}
nTimeout.prototype.unref = Timeout.prototype.ref = function()
{};
nTimeout.prototype.close = function() {
  this._clearFn.call(window, this._id);
};
// Does not start the time,
just sets up the members needed.
nexports.enroll = function(item,
  msecs) {
  clearTimeout(item._idleTimeoutId);
  item._idleTimeout = msecs;
};
nexports.unenroll =
function(item) {
  clearTimeout(item._idleTimeoutId);
  item._idleTimeout = -1;
};
nexports._unrefActive =
exports.active = function(item) {
  clearTimeout(item._idleTimeoutId);
  var msecs = item._idleTimeout;
  if (msecs >= 0) {
    item._idleTimeoutId = setTimeout(function onTimeout() {
      if (item._onTimeout)
      item._onTimeout();
    }, msecs);
  }
};
// That's not how node.js implements it but the exposed api is the
same.
nexports.setImmediate =
typeof setImmediate === "function" ? setImmediate : function(fn) {
  var id =
  nextImmediateId++;
  var args = arguments.length < 2 ? false : slice.call(arguments, 1);
  immediateIds[id] =
  true;
  nextTick(function onNextTick() {
    if (immediateIds[id]) {
      // fn.call() is faster so we optimize for
the common use-case
      // @see http://jsperf.com/call-apply-seq
      if (args) {
        fn.apply(null, args);
      } else {
        fn.call(null);
      }
      // Prevent ids from leaking
      exports.clearImmediate(id);
    }
  });
  return id;
};
nexports.clearImmediate =
typeof clearImmediate ===
"function" ? clearImmediate : function(id) {
  delete immediateIds[id];
};
// WEBPACK FOOTER //n//
../~/timers-browserify/main.js", " // shim for using process in browser
nvar process = module.exports = {};
n//
cached from whatever global is present so that test runners that stub it
// don't break things. But we need to wrap it
in a try catch in case it is
// wrapped in strict mode code which doesn't define any globals. It's inside a
// function
because try/catches deoptimize in certain engines.
nvar cachedSetTimeout;
nvar cachedClearTimeout;
nfunction
defaultSetTimeout() {
  throw new Error('setTimeout has not been defined');
}
nfunction
defaultClearTimeout() {

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{\n  throw new Error('clearTimeout has not been defined');\n}\n(function ()
{\n  try {\n    if (typeof setTimeout === 'function') {\n      cachedSetTimeout = setTimeout;\n    } else {\n      cachedSetTimeout = defaultSetTimeout;\n    } } catch (e) {\n    cachedSetTimeout =
defaultSetTimeout;\n  }\n  try {\n    if (typeof clearTimeout === 'function') {\n      cachedClearTimeout =
clearTimeout;\n    } else {\n      cachedClearTimeout = defaultClearTimeout;\n    } } catch (e) {\n
cachedClearTimeout = defaultClearTimeout;\n  }\n} ());\nfunction runTimeout(fun) {\n  if (cachedSetTimeout
=== setTimeout) {\n    //normal environments in sane situations\n    return setTimeout(fun, 0);\n  } } // if
setTimeout wasn't available but was latter defined\n  if ((cachedSetTimeout === defaultSetTimeout ||
!cachedSetTimeout) && setTimeout) {\n    cachedSetTimeout = setTimeout;\n    return setTimeout(fun, 0);\n
}\n  try {\n    // when when somebody has screwed with setTimeout
but no I.E. maddness\n    return cachedSetTimeout(fun, 0);\n  } catch(e){\n    try {\n      // When we are in
I.E. but the script has been eveled so I.E. doesn't trust the global object when called normally\n      return
cachedSetTimeout.call(null, fun, 0);\n    } catch(e){\n      // same as above but when it's a version of I.E. that
must have the global object for 'this', hopfully our context correct otherwise it will throw a global error\n
return cachedSetTimeout.call(this, fun, 0);\n    } }\n}\n}\nfunction runClearTimeout(marker) {\n  if
(cachedClearTimeout === clearTimeout) {\n    //normal environments in sane situations\n    return
clearTimeout(marker);\n  } } // if clearTimeout wasn't available but was latter defined\n  if
((cachedClearTimeout === defaultClearTimeout || !cachedClearTimeout) && clearTimeout) {\n
cachedClearTimeout = clearTimeout;\n    return clearTimeout(marker);\n  } } try {\n
    // when when somebody has screwed with setTimeout but no I.E. maddness\n    return
cachedClearTimeout(marker);\n  } catch (e){\n    try {\n      // When we are in I.E. but the script has been
eveled so I.E. doesn't trust the global object when called normally\n      return cachedClearTimeout.call(null,
marker);\n    } catch (e){\n      // same as above but when it's a version of I.E. that must have the global object
for 'this', hopfully our context correct otherwise it will throw a global error.\n      // Some versions of I.E. have
different rules for clearTimeout vs setTimeout\n      return cachedClearTimeout.call(this, marker);\n    } }\n
}\n}\n}\n}\n\nvar queue = [];\nvar draining = false;\nvar currentQueue;\nvar queueIndex = -1;\nfunction
cleanUpNextTick() {\n  if (!draining || !currentQueue) {\n    return;\n  }\n  draining = false;\n  if
(currentQueue.length) {\n    queue = currentQueue.concat(queue);\n  }
  else {\n    queueIndex = -1;\n  }\n  if (queue.length) {\n    drainQueue();\n  }\n}\nfunction drainQueue()
{\n  if (draining) {\n    return;\n  }\n  var timeout = runTimeout(cleanUpNextTick);\n  draining = true;\n\n
var len = queue.length;\n  while(len) {\n    currentQueue = queue;\n    queue = [];\n    while (++queueIndex
< len) {\n      if (currentQueue) {\n        currentQueue[queueIndex].run();\n      } }\n    queueIndex = -1;\n
    len = queue.length;\n  }\n  currentQueue = null;\n  draining = false;\n  runClearTimeout(timeout);\n}\n\nprocess.nextTick = function (fun) {\n  var args = new Array(arguments.length -
1);\n  if (arguments.length > 1) {\n    for (var i = 1; i < arguments.length; i++) {\n      args[i - 1] =
arguments[i];\n    } }\n  queue.push(new Item(fun, args));\n  if (queue.length === 1 && !draining) {\n
runTimeout(drainQueue);\n  } }\n};\n\n// v8
likes predictable objects\nfunction Item(fun, array) {\n  this.fun = fun;\n  this.array =
array;\n}\nItem.prototype.run = function () {\n  this.fun.apply(null, this.array);\n};\n\nprocess.title =
'browser';\nprocess.browser = true;\nprocess.env = {};\nprocess.argv = [];\nprocess.version = ''; // empty string to
avoid regexp issues\nprocess.versions = {};\n\nfunction noop() {};\nprocess.on = noop;\nprocess.addListener =
noop;\nprocess.once = noop;\nprocess.off = noop;\nprocess.removeListener = noop;\nprocess.removeAllListeners =
noop;\nprocess.emit = noop;\nprocess.binding = function (name) {\n  throw new Error('process.binding is not
supported');\n};\n\nprocess.cwd = function () { return '' };\nprocess.chdir = function (dir) {\n  throw new
Error('process.chdir is not supported');\n};\n\nprocess.umask = function() { return 0; };\n\n\n// WEBPACK
FOOTER //^n// ../~/timers-browserify~/process/browser.js", "(function (global, undefined) {\n  \"use strict\";\n\n
if (global.setImmediate)

```



```

{\n    return;\n }\n\n var nextHandle = 1; // Spec says greater than zero\n var tasksByHandle = {};\n var
currentlyRunningATask = false;\n var doc = global.document;\n var registerImmediate;\n\n function
setImmediate(callback) {\n    // Callback can either be a function or a string\n    if (typeof callback !==
\"function\") {\n        callback = new Function(\"\" + callback);\n    }\n    // Copy function arguments\n    var args
= new Array(arguments.length - 1);\n    for (var i = 0; i < args.length; i++) {\n        args[i] = arguments[i + 1];\n
}\n    // Store and register the task\n    var task = { callback: callback, args: args };\n
tasksByHandle[nextHandle] = task;\n    registerImmediate(nextHandle);\n    return nextHandle++;\n }\n\n
function clearImmediate(handle) {\n    delete tasksByHandle[handle];\n }\n\n function run(task) {\n    var
callback = task.callback;\n    var args = task.args;\n
    switch (args.length) {\n        case 0:\n            callback();\n            break;\n        case 1:\n
callback(args[0]);\n            break;\n        case 2:\n            callback(args[0], args[1]);\n            break;\n
        case 3:\n            callback(args[0], args[1], args[2]);\n            break;\n        default:\n
            callback.apply(undefined, args);\n            break;\n    }\n }\n\n function runIfPresent(handle) {\n    // From the spec: \"Wait until any invocations of
this algorithm started before this one have completed.\"\n    // So if we're currently running a task, we'll need to
delay this invocation.\n    if (currentlyRunningATask) {\n        // Delay by doing a setTimeout. setImmediate
was tried instead, but in Firefox 7 it generated a\n        // \"too much recursion\" error.\n
setTimeout(runIfPresent, 0, handle); \n    } else {\n        var task = tasksByHandle[handle];\n        if (task)
{\n            currentlyRunningATask = true;\n            try {\n                run(task);\n            } finally {\n
                clearImmediate(handle);\n                currentlyRunningATask = false;\n            }\n        }\n
}\n\n function installNextTickImplementation() {\n    registerImmediate = function(handle) {\n
process.nextTick(function () { runIfPresent(handle); });\n    };\n }\n\n function canUsePostMessage() {\n
// The test against `importScripts` prevents this implementation from being installed inside a web worker,\n //
where `global.postMessage` means something completely different and can't be used for this purpose.\n    if
(global.postMessage && !global.importScripts) {\n        var postMessageIsAsynchronous = true;\n        var
oldOnMessage = global.onmessage;\n        global.onmessage = function() {\n
postMessageIsAsynchronous = false;\n
        };\n        global.postMessage(\"\", \"*\");\n        global.onmessage = oldOnMessage;\n        return
postMessageIsAsynchronous;\n    }\n }\n\n function installPostMessageImplementation() {\n    // Installs an
event handler on `global` for the `message` event: see\n    // *
https://developer.mozilla.org/en/DOM/window.postMessage\n    // * http://www.whatwg.org/specs/web-
apps/current-work/multipage/comms.html#crossDocumentMessages\n    var messagePrefix = \"setImmediate$\"
+ Math.random() + \"$\";\n    var onGlobalMessage = function(event) {\n        if (event.source === global
&&\n        typeof event.data === \"string\" &&\n        event.data.indexOf(messagePrefix) === 0) {\n
            runIfPresent(+event.data.slice(messagePrefix.length));\n        }\n    };\n    if (global.addEventListener)
{\n        global.addEventListener(\"message\", onGlobalMessage, false);\n    } else {\n
        global.attachEvent(\"onmessage\", onGlobalMessage);\n    }\n    registerImmediate = function(handle)
{\n        global.postMessage(messagePrefix + handle, \"*\");\n    };\n }\n\n function
installMessageChannelImplementation() {\n    var channel = new MessageChannel();\n
channel.port1.onmessage = function(event) {\n        var handle = event.data;\n        runIfPresent(handle);\n
};\n    registerImmediate = function(handle) {\n        channel.port2.postMessage(handle);\n    };\n }\n\n
function installReadyStateChangeImplementation() {\n    var html = doc.documentElement;\n
registerImmediate = function(handle) {\n        // Create a <script> element; its readystatechange event will be
fired asynchronously once it is inserted\n        // into the document. Do so, thus queuing up the task. Remember to
clean up once it's been called.\n        var script = doc.createElement(\"script\");\n
        script.onreadystatechange = function () {\n            runIfPresent(handle);\n
            script.onreadystatechange = null;\n            html.removeChild(script);\n            script = null;\n
        };\n        html.appendChild(script);\n    };\n }\n\n function installSetTimeoutImplementation() {\n
registerImmediate = function(handle) {\n        setTimeout(runIfPresent, 0, handle);\n    };\n }\n\n // If

```

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supported, we should attach to the prototype of global, since that is where setTimeout et al. live.\n  var attachTo =
Object.getPrototypeOf( && Object.getPrototypeOf(global));\n  attachTo = attachTo && attachTo.setTimeout ?
attachTo : global;\n\n  // Don't get fooled by e.g. browserify environments.\n  if ({}.toString.call(global.process)
=== "[object process]") {\n    // For Node.js before 0.9\n    installNextTickImplementation();\n\n  } else if
(canUsePostMessage()) {\n    // For non-IE10 modern browsers\n
installPostMessageImplementation();\n\n  } else if (global.MessageChannel) {\n    // For web workers,
where supported\n    installMessageChannelImplementation();\n\n  } else if (doc && "onreadystatechange" in
doc.createElement("script")) {\n    // For IE 6-8\n    installReadyStateChangeImplementation();\n\n  } else
{\n    // For older browsers\n    installSetTimeoutImplementation();\n  }\n\n  attachTo.setImmediate =
setImmediate;\n  attachTo.clearImmediate = clearImmediate;\n}(typeof self === "undefined" ? typeof global ===
"undefined" ? this : global : self);\n\n\n// WEBPACK FOOTER //\n\n../setimmediate/setImmediate.js", "//
shim for using process in browser\nvar process = module.exports = {};\n\n// cached from whatever global is present
so that test runners that stub it\n// don't break things. But we need to wrap it in a try catch in case it is\n// wrapped in
strict mode code which doesn't define any globals. It's inside
a\n// function because try/catches deoptimize in certain engines.\n\nvar cachedSetTimeout;\nvar
cachedClearTimeout;\n\nfunction defaultSetTimeout() {\n  throw new Error('setTimeout has not been
defined');\n}\n\nfunction defaultClearTimeout () {\n  throw new Error('clearTimeout has not been
defined');\n}\n\n(function () {\n  try {\n    if (typeof setTimeout === 'function') {\n      cachedSetTimeout =
setTimeout;\n    } else {\n      cachedSetTimeout = defaultSetTimeout;\n    }\n  } catch (e) {\n
cachedSetTimeout = defaultSetTimeout;\n  }\n  try {\n    if (typeof clearTimeout === 'function') {\n
cachedClearTimeout = clearTimeout;\n    } else {\n      cachedClearTimeout = defaultClearTimeout;\n    }\n  }
catch (e) {\n    cachedClearTimeout = defaultClearTimeout;\n  }\n})()\n\nfunction runTimeout(fun) {\n  if
(cachedSetTimeout === setTimeout) {\n    //normal environments in sane situations\n    return setTimeout(fun,
0);\n  }\n  // if setTimeout wasn't available but was latter defined\n  if ((cachedSetTimeout ===
defaultSetTimeout || !cachedSetTimeout) && setTimeout) {\n    cachedSetTimeout = setTimeout;\n    return
setTimeout(fun, 0);\n  }\n  try {\n    // when when somebody has screwed with setTimeout but no I.E.
maddness\n    return cachedSetTimeout(fun, 0);\n  } catch(e){\n    try {\n      // When we are in I.E. but the
script has been evald so I.E. doesn't trust the global object when called normally\n      return
cachedSetTimeout.call(null, fun, 0);\n    } catch(e){\n      // same as above but when it's a version of I.E. that
must have the global object for 'this', hopfully our context correct otherwise it will throw a global error\n
return cachedSetTimeout.call(this, fun, 0);\n    }\n  }\n}\n\nfunction runClearTimeout(marker) {\n  if
(cachedClearTimeout === clearTimeout) {\n    //normal environments in sane
situations\n    return clearTimeout(marker);\n  }\n  // if clearTimeout wasn't available but was latter defined\n
if ((cachedClearTimeout === defaultClearTimeout || !cachedClearTimeout) && clearTimeout) {\n
cachedClearTimeout = clearTimeout;\n    return clearTimeout(marker);\n  }\n  try {\n    // when when
somebody has screwed with setTimeout but no I.E. maddness\n    return cachedClearTimeout(marker);\n  }
catch (e){\n    try {\n      // When we are in I.E. but the script has been evald so I.E. doesn't trust the global
object when called normally\n      return cachedClearTimeout.call(null, marker);\n    } catch (e){\n      //
same as above but when it's a version of I.E. that must have the global object for 'this', hopfully our context correct
otherwise it will throw a global error.\n      // Some versions of I.E. have different rules for clearTimeout vs
setTimeout\n      return cachedClearTimeout.call(this,
marker);\n    }\n  }\n}\n\n\nvar queue = [];\nvar draining = false;\nvar currentQueue;\nvar queueIndex = -
1;\n\nfunction cleanUpNextTick() {\n  if (!draining || !currentQueue) {\n    return;\n  }\n  draining = false;\n
if (currentQueue.length) {\n    queue = currentQueue.concat(queue);\n  } else {\n    queueIndex = -1;\n  }\n
if (queue.length) {\n    drainQueue();\n  }\n}\n\nfunction drainQueue() {\n  if (draining) {\n    return;\n  }\n
var timeout = runTimeout(cleanUpNextTick);\n  draining = true;\n\n  var len = queue.length;\n  while(len) {\n
currentQueue = queue;\n    queue = [];\n    while (++queueIndex < len) {\n      if (currentQueue) {\n
currentQueue[queueIndex].run();\n      }\n    }\n    queueIndex = -1;\n    len = queue.length;\n  }\n}

```

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currentQueue = null;\n  draining = false;\n  runClearTimeout(timeout);\n}\n\nprocess.nextTick = function (fun)
{\n  var
  args = new Array(arguments.length - 1);\n  if (arguments.length > 1) {\n    for (var i = 1; i < arguments.length;
i++) {\n      args[i - 1] = arguments[i];\n    }\n  }\n  queue.push(new Item(fun, args));\n  if (queue.length
=== 1 && !draining) {\n    runTimeout(drainQueue);\n  }\n};\n\n// v8 likes predictable objects\nfunction
Item(fun, array) {\n  this.fun = fun;\n  this.array = array;\n}\nItem.prototype.run = function () {\n
this.fun.apply(null, this.array);\n};\n\nprocess.title = 'browser';\nprocess.browser = true;\nprocess.env =
{};\nprocess.argv = [];\nprocess.version = ''; // empty string to avoid regexp issues\nprocess.versions =
{};\n\nfunction noop() {}\n\nprocess.on = noop;\nprocess.addListener = noop;\nprocess.once = noop;\nprocess.off =
noop;\nprocess.removeListener = noop;\nprocess.removeAllListeners = noop;\nprocess.emit =
noop;\n\nprocess.binding = function (name) {\n  throw new Error('process.binding is not
supported');\n};\n\nprocess.cwd
= function () { return '/'; }\n\nprocess.chdir = function (dir) {\n  throw new Error('process.chdir is not
supported');\n};\n\nprocess.umask = function() { return 0; };
\n\n\n// WEBPACK FOOTER //\n\n../~/node-libs-
browser/~/process/browser.js", "import toPath from 'lodash.topath';\nimport Ajv from 'ajv';\nconst ajv = new
Ajv({\n  errorDataPath: 'property',\n  allErrors: true,\n});\n\n// add custom formats\najv.addFormat(\n  'data-
url',\n  /^data:([a-z]+\\|\\[a-z0-9-+\\.]+)?;name=(.*);base64,(.*)$/\n);\n\najv.addFormat(\n  'color',\n  /^(#?([0-9A-Fa-
f]){3}){1,2}\\|b|aqua|black|blue|fuchsia|gray|green|lime|maroon|navy|olive|orange|purple|red|silver|teal|white|yellow|(r
gb|\\(\\|s*\\|b|[0-9][1-9][0-9][1[0-9][0-9]2[0-4][0-9]25[0-5])\\|b\\|s*|\\|s*\\|b|[0-9][1-9][0-9][1[0-9][0-9]2[0-4][0-
9]25[0-5])\\|b\\|s*|\\|s*\\|b|[0-9][1-9][0-9][1[0-9][0-9]2[0-4][0-9]25[0-
5])\\|b\\|s*\\|\\(rgb|\\(\\|s*\\(\\d?\\d%|100%)+\\|s*|\\|s*\\(\\d?\\d%|100%)+\\|s*|\\(\\d?\\d%|100%)+\\|s*\\|\\)\\)$/\n);\n\nimport
{ isObject, mergeObjects
} from './utils';\n\nfunction toErrorSchema(errors) {\n  // Transforms a ajv validation errors list:\n  // [\n  //
{property: ".level1.level2[2].level3", message: "err a"},\n  // {property: ".level1.level2[2].level3", message:
"err b"},\n  // {property: ".level1.level2[4].level3", message: "err b"},\n  // ]\n  // Into an error tree:\n  // {\n  //
level1: {\n  //   level2: {\n  //     2: {level3: { errors: ["err a", "err b"]}},\n  //     4: {level3: { errors: ["err
b"]}},\n  //   }\n  // }\n  // }\n  // }\n  // }\n  // if (!errors.length) {\n  //   return {};\n  // }\n  // return errors.reduce((errorSchema, error)
=> {\n  //   const { property, message } = error;\n  //   const path = toPath(property);\n  //   let parent = errorSchema;\n  //
  // If the property is at the root (.level1) then toPath creates\n  // an empty array element at the first index. Remove
it.\n  //   if (path.length > 0 && path[0] === "\\") {\n  //     path.splice(0, 1);\n  //   }\n  //   for (const segment of
path.slice(0))\n  //     {\n  //       if (!(segment in parent)) {\n  //         parent[segment] = {};\n  //       }\n  //       parent = parent[segment];\n  //     }\n  //   if
(Array.isArray(parent.__errors)) {\n  //     // We store the list of errors for this node in a property named __errors\n  //
to avoid name collision with a possible sub schema field named\n  //     // "errors" (see
`validate.createErrorHandler`).\n  //     parent.__errors = parent.__errors.concat(message);\n  //   } else {\n  //
parent.__errors = [message];\n  //   }\n  //   return errorSchema;\n  // }, {});\n  // }\n\nexport function toErrorList(errorSchema,
fieldName = "root") {\n  // XXX: We should transform fieldName as a full field path string.\n  let errorList = [];\n  if
(!("__errors" in errorSchema)) {\n  //   errorList = errorList.concat([\n  //     errorSchema.__errors.map(stack => {\n  //
return {\n  //       stack: `${fieldName}: ${stack}`,\n  //       }\n  //     });\n  //   });\n  //   return
Object.keys(errorSchema).reduce((acc, key) => {\n  //     if (key !== "__errors")\n  //       {\n  //         acc =
acc.concat(toErrorList(errorSchema[key], key));\n  //       }\n  //     return acc;\n  // }, errorList);\n  // }\n\nfunction
createErrorHandler(formData) {\n  const handler = {\n  // We store the list of errors for this node in a property
named __errors\n  // to avoid name collision with a possible sub schema field named\n  // "errors" (see
`utils.toErrorSchema`).\n  //   __errors: [],\n  //   addError(message) {\n  //     this.__errors.push(message);\n  //   },\n  //   }\n  //   if
(isObject(formData)) {\n  //     return Object.keys(formData).reduce((acc, key) => {\n  //       return { ...acc, [key]:
createErrorHandler(formData[key]) }\n  //     }, handler);\n  //   }\n  //   if (Array.isArray(formData)) {\n  //     return
formData.reduce((acc, value, key) => {\n  //       return { ...acc, [key]: createErrorHandler(value) }\n  //     }, handler);\n  //
  //   }\n  //   return handler;\n  // }\n\nfunction unwrapErrorHandler(errorHandler) {\n  return

```

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Object.keys(errorHandler).reduce((acc, key) => {n  if (key === "addError") {n  return acc;n  } else
if (key === "__errors") {n  return { ...acc, [key]: errorHandler[key] };n  }n  return { ...acc, [key]:
unwrapErrorHandler(errorHandler[key] );n  }, {});n}n/n/n/**n * Transforming the error output from ajv to format
used by jsonschema.n * At some point, components should be updated to support ajv.n */n/function
transformAjvErrors(errors = []) {n  if (errors === null) {n  return [];n  }n  return errors.map(e => {n  const {
dataPath, keyword, message, params } = e;n  let property = `${dataPath}`;n  // put data in expected formatn
return {n  name: keyword,n  property,n  message,n  params, // specific to ajv\n  stack: `${property}
${message}`.trim(),n  };n  });n}n/n/n/**n * This function processes the formData with a user `validate`
contributedn * function, which receives the form data and an `errorHandler` object thatn * will be used to add
custom validation errors for each field.n */n/export default function validateFormData(n
formData,n  schema,n  customValidate,n  transformErrors)n {n  ajv.validate(schema, formData);n  let errors
= transformAjvErrors(ajv.errors);n  if (typeof transformErrors === "function") {n  errors =
transformErrors(errors);n  }n  const errorSchema = toErrorSchema(errors);n  if (typeof customValidate !==
"function") {n  return { errors, errorSchema };n  }n  const errorHandler = customValidate(formData,
createErrorHandler(formData));n  const userErrorSchema = unwrapErrorHandler(errorHandler);n  const
newErrorSchema = mergeObjects(errorSchema, userErrorSchema, true);n  // XXX: The errors list produced is not
fully compliant with the formatn // exposed by the jsonschema lib, which contains full field paths and othern //
properties.n  const newErrors = toErrorList(newErrorSchema);n  return { errors: newErrors, errorSchema:
newErrorSchema };n}n/n/n/n// WEBPACK FOOTER //n// ./validate.js", /**n * lodash (Custom Build)
<https://lodash.com/>n
* Build: `lodash modularize exports="npm" -o`n * Copyright jQuery Foundation and other contributors
<https://jquery.org/>n * Released under MIT license <https://lodash.com/license>n * Based on Underscore.js 1.8.3
<http://underscorejs.org/LICENSE>n * Copyright Jeremy Ashkenas, DocumentCloud and Investigative Reporters
& Editorsn */n/n/** Used as the `TypeError` message for `Functions` methods. */nvar FUNC_ERROR_TEXT =
'Expected a function';n/n/** Used to stand-in for `undefined` hash values. */nvar HASH_UNDEFINED =
'__lodash_hash_undefined__';n/n/** Used as references for various `Number` constants. */nvar INFINITY = 1 /
0;n/n/** `Object#toString` result references. */nvar funcTag = '[object Function]',n  genTag = '[object
GeneratorFunction]',n  symbolTag = '[object Symbol]';n/n/** Used to match property names within property
paths. */nvar reLeadingDot = /^\./,n  rePropName = /^[^.\]]+|[[(?(-
?[\d+(?!\.|\d+)?)([ ])(?(?!)\2)[^\s\]]*(?=\2)](?:\.[^\[\]]|?)[^]]$/g;n/n/**n
* Used to match `RegExp`n * [syntax characters](http://ecma-international.org/ecma-262/7.0/#sec-patterns).n
*/nvar reRegExpChar = /[\\^$. *+?()\[\]{} ]/g;n/n/** Used to match backslashes in property paths. */nvar
reEscapeChar = /\\(\\|\/|?)/g;n/n/** Used to detect host constructors (Safari). */nvar reIsHostCtor = /^([object
.+?Constructor\]$/;n/n/** Detect free variable `global` from Node.js. */nvar freeGlobal = typeof global == 'object'
&& global && global.Object === Object && global;n/n/** Detect free variable `self`. */nvar freeSelf = typeof
self == 'object' && self && self.Object === Object && self;n/n/** Used as a reference to the global object. */nvar
root = freeGlobal || freeSelf || Function('return this')();n/n/**n * A specialized version of `_.map` for arrays without
support for iteratee\n * shorthands.n */n * @private\n * @param {Array} [array] The array to iterate over.n *
@param {Function} iteratee
The function invoked per iteration.n * @returns {Array} Returns the new mapped array.n */n/function
arrayMap(array, iteratee) {n  var index = -1,n  length = array ? array.length : 0,n  result = Array(length);n
while (++index < length) {n  result[index] = iteratee(array[index], index, array);n  }n  return result;n}n/n/n/n *
Gets the value at `key` of `object`.n */n * @private\n * @param {Object} [object] The object to query.n * @param
{string} key The key of the property to get.n * @returns {*} Returns the property value.n */n/function
getValue(object, key) {n  return object == null ? undefined : object[key];n}n/n/n/n * Checks if `value` is a host
object in IE < 9.n */n * @private\n * @param {*} value The value to check.n * @returns {boolean} Returns `true`
if `value` is a host object, else `false`.n */n/function isHostObject(value) {n  // Many host objects are `Object`
objects that can coerce to stringsn // despite having improperly defined `toString`

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methods.\n var result = false;\n if (value != null && typeof value.toString != 'function') {\n try {\n result =
!!(value + "");\n } catch (e) {} }\n return result;\n}\n\n/** Used for built-in method references. *\nvar
arrayProto = Array.prototype,\n funcProto = Function.prototype,\n objectProto = Object.prototype;\n\n/** Used
to detect overreaching core-js shims. *\nvar coreJsData = root['__core-js_shared__'];\n\n/** Used to detect methods
masquerading as native. *\nvar maskSrcKey = (function() {\n var uid = /^[^].+$.exec(coreJsData &&
coreJsData.keys && coreJsData.keys.IE_PROTO || "");\n return uid ? ('Symbol(src)_1.' + uid) : ""; }\n\n/** Used
to resolve the decompiled source of functions. *\nvar funcToString = funcProto.toString;\n\n/** Used to check
objects for own properties. *\nvar hasOwnProperty = objectProto.hasOwnProperty;\n\n/** Used to resolve the\n
* [ toStringTag ] (http://ecma-international.org/ecma-262/7.0/#sec-object.prototype.tostring)\n
* of values.\n *\nvar objectToString = objectProto.toString;\n\n/** Used to detect if a method is native. *\nvar
reIsNative = RegExp('^ +\n funcToString.call(hasOwnProperty).replace(reRegExpChar, '\\\\$&')\n
.replace(/hasOwnProperty|(function).*?(?=\\\|\\|) for .+?(?=\\\|\\|)/g, '$1.*?') + '$\n);\n\n/** Built-in value
references. *\nvar Symbol = root.Symbol,\n splice = arrayProto.splice;\n\n/** Built-in method references that are
verified to be native. *\nvar Map = getNative(root, 'Map'),\n nativeCreate = getNative(Object, 'create');\n\n/**
Used to convert symbols to primitives and strings. *\nvar symbolProto = Symbol ? Symbol.prototype : undefined,\n
symbolToString = symbolProto ? symbolProto.toString : undefined;\n\n/**\n * Creates a hash object.\n *\n *\n
@private\n * @constructor\n * @param {Array} [entries] The key-value pairs to cache.\n *\nfunction Hash(entries)
{\n var index = -1,\n length = entries ? entries.length : 0;\n\n this.clear();\n\n while (++index < length) {\n
var entry = entries[index];\n this.set(entry[0], entry[1]);\n }\n}\n\n/**\n * Removes all key-value entries from the hash.\n
*\n *\n @private\n * @name clear\n * @memberOf Hash\n\nfunction hashClear() {\n this.__data__ = nativeCreate ?
nativeCreate(null) : {};\n}\n\n/**\n * Removes `key` and its value from the hash.\n *\n *\n @private\n * @name
delete\n * @memberOf Hash\n * @param {Object} hash The hash to modify.\n * @param {string} key The key of the value
to remove.\n * @returns {boolean} Returns `true` if the entry was removed, else `false`.\n *\nfunction hashDelete(key)
{\n return this.has(key) && delete this.__data__[key];\n}\n\n/**\n * Gets the hash value for `key`.\n *\n *\n @private\n
* @name get\n * @memberOf Hash\n * @param {string} key The key of the value to get.\n * @returns {*} Returns the entry
value.\n *\nfunction hashGet(key) {\n var data = this.__data__;\n if (nativeCreate) {\n var result = data[key];\n
return result === HASH_UNDEFINED ? undefined : result;\n }\n return hasOwnProperty.call(data, key) ? data[key] :
undefined;\n}\n\n/**\n * Checks if a hash value for `key` exists.\n *\n *\n @private\n * @name has\n * @memberOf
Hash\n * @param {string} key The key of the entry to check.\n * @returns {boolean} Returns `true` if an entry for
`key` exists, else `false`.\n *\nfunction hashHas(key) {\n var data = this.__data__;\n return nativeCreate ?
data[key] !== undefined : hasOwnProperty.call(data, key);\n}\n\n/**\n * Sets the hash `key` to `value`.\n *\n *\n
@private\n * @name set\n * @memberOf Hash\n * @param {string} key The key of the value to set.\n * @param
{*} value The value to set.\n * @returns {Object} Returns the hash instance.\n *\nfunction hashSet(key, value) {\n
var data = this.__data__;\n data[key] = (nativeCreate && value === undefined) ? HASH_UNDEFINED : value;\n
return this;\n}\n\n// Add methods to `Hash`.\n\nHash.prototype.clear = hashClear;\nHash.prototype['delete'] =
hashDelete;\nHash.prototype.get = hashGet;\nHash.prototype.has = hashHas;\nHash.prototype.set = hashSet;\n\n/**\n * Creates
an list cache object.\n *\n *\n @private\n * @constructor\n * @param {Array} [entries] The key-value pairs to cache.\n
*\nfunction ListCache(entries) {\n var index = -1,\n length = entries ? entries.length : 0;\n\n this.clear();\n\n
while (++index < length) {\n var entry = entries[index];\n this.set(entry[0], entry[1]);\n }\n}\n\n/**\n * Removes
all key-value entries from the list cache.\n *\n *\n @private\n * @name clear\n * @memberOf ListCache\n\nfunction
listCacheClear() {\n this.__data__ = [];\n}\n\n/**\n * Removes `key` and its value from the list
cache.\n *\n *\n @private\n * @name delete\n * @memberOf ListCache\n * @param {string} key The key of the
value to remove.\n * @returns {boolean} Returns `true` if the entry was removed, else `false`.\n *\nfunction
listCacheDelete(key) {\n var data = this.__data__,\n index = assocIndexOf(data, key);\n\n if (index < 0) {\n
return false;\n }\n var lastIndex = data.length - 1;\n if (index == lastIndex) {\n data.pop();\n } else {\n
splice.call(data, index, 1);\n }\n return true;\n}\n\n/**\n * Gets the list cache value for `key`.\n *\n *\n
@private\n *

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    @name get\n * @memberOf ListCache\n * @param {string} key The key of the value to get.\n * @returns {*}
    Returns the entry value.\n */\nfunction listCacheGet(key) {\n  var data = this.__data__,\n      index =
    assocIndexOf(data, key);\n\n  return index < 0 ? undefined : data[index][1];\n}\n\n/**\n * Checks if a list cache
    value for `key` exists.\n */\n * @private\n * @name has\n * @memberOf ListCache\n * @param {string} key The
    key of the entry to check.\n * @returns {boolean} Returns `true` if an entry for `key` exists, else `false`.\n
    */\nfunction listCacheHas(key) {\n  return assocIndexOf(this.__data__, key) > -1;\n}\n\n/**\n * Sets the list cache
    `key` to `value`.\n */\n * @private\n * @name set\n * @memberOf ListCache\n * @param {string}
    key The key of the value to set.\n * @param {*} value The value to set.\n * @returns {Object} Returns the list
    cache instance.\n */\nfunction listCacheSet(key, value) {\n  var data = this.__data__,\n      index =
    assocIndexOf(data, key);\n\n  if (index < 0) {\n    data.push([key, value]);\n  } else {\n    data[index][1] = value;\n
  }\n  return this;\n}\n\n// Add methods to `ListCache`.\nListCache.prototype.clear =
    listCacheClear;\nListCache.prototype['delete'] = listCacheDelete;\nListCache.prototype.get =
    listCacheGet;\nListCache.prototype.has = listCacheHas;\nListCache.prototype.set = listCacheSet;\n\n/**\n * Creates
    a map cache object to store key-value pairs.\n */\n * @private\n * @constructor\n * @param {Array} [entries] The
    key-value pairs to cache.\n */\nfunction MapCache(entries) {\n  var index = -1,\n      length = entries ? entries.length
    : 0;\n\n  this.clear();\n  while (++index < length) {\n    var entry = entries[index];\n    this.set(entry[0], entry[1]);\n
  }\n}\n\n/**\n * Removes all key-value entries from the map.\n */\n * @private\n * @name clear\n * @memberOf MapCache\n
    */\nfunction mapCacheClear() {\n  this.__data__ = {\n    'hash': new Hash,\n    'map': new (Map || ListCache),\n
    'string': new Hash\n  };\n}\n\n/**\n * Removes `key` and its value from the map.\n */\n * @private\n * @name
    delete\n * @memberOf MapCache\n * @param {string} key The key of the value to remove.\n * @returns
    {boolean} Returns `true` if the entry was removed, else `false`.\n */\nfunction mapCacheDelete(key) {\n  return
    getMapData(this, key)['delete'](key);\n}\n\n/**\n * Gets the map value for `key`.\n */\n * @private\n * @name get\n
    * @memberOf MapCache\n * @param {string} key The key of the value to get.\n * @returns {*} Returns the entry
    value.\n */\nfunction mapCacheGet(key) {\n  return getMapData(this, key).get(key);\n}\n\n/**\n * Checks if a map
    value for `key` exists.\n */\n * @private\n * @name has\n * @memberOf MapCache\n * @param {string} key The
    key of the entry
    to check.\n * @returns {boolean} Returns `true` if an entry for `key` exists, else `false`.\n */\nfunction
    mapCacheHas(key) {\n  return getMapData(this, key).has(key);\n}\n\n/**\n * Sets the map `key` to `value`.\n */\n *
    @private\n * @name set\n * @memberOf MapCache\n * @param {string} key The key of the value to set.\n *
    @param {*} value The value to set.\n * @returns {Object} Returns the map cache instance.\n */\nfunction
    mapCacheSet(key, value) {\n  getMapData(this, key).set(key, value);\n  return this;\n}\n\n// Add methods to
    `MapCache`.\nMapCache.prototype.clear = mapCacheClear;\nMapCache.prototype['delete'] =
    mapCacheDelete;\nMapCache.prototype.get = mapCacheGet;\nMapCache.prototype.has =
    mapCacheHas;\nMapCache.prototype.set = mapCacheSet;\n\n/**\n * Gets the index at which the `key` is found in
    `array` of key-value pairs.\n */\n * @private\n * @param {Array} array The array to inspect.\n * @param {string} key
    The key to search for.\n * @returns {number} Returns the index of the matched
    value, else `-1`.\n */\nfunction assocIndexOf(array, key) {\n  var length = array.length;\n  while (length--) {\n
    if (eq(array[length][0], key)) {\n    return length;\n  }\n}\n  return -1;\n}\n\n/**\n * The base implementation of
    `_.isNative` without bad shim checks.\n */\n * @private\n * @param {*} value The value to check.\n * @returns
    {boolean} Returns `true` if `value` is a native function, else `false`.\n */\nfunction baseIsNative(value) {\n  if
    (!isObject(value) || isMasked(value)) {\n    return false;\n  }\n  var pattern = (isFunction(value) ||
    isHostObject(value)) ? reIsNative : reIsHostCtor;\n  return pattern.test(toSource(value));\n}\n\n/**\n * The base
    implementation of `_.toString` which doesn't convert nullish\n * values to empty strings.\n */\n * @private\n *
    @param {*} value The value to process.\n * @returns {string} Returns the string.\n */\nfunction
    baseToString(value) {\n  // Exit early for strings to avoid a performance hit in some environments.\n  if
    (typeof value == 'string') {\n    return value;\n  }\n  if (isSymbol(value)) {\n    return symbolToString ?
    symbolToString.call(value) : '';\n  }\n  var result = (value + '');\n  return (result == '0' && (1 / value) ==
    -INFINITY)
  
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? '-0' : result;\n}\n\n/**\n * Copies the values of `source` to `array`.\n *\n * @private\n * @param {Array} source
The array to copy values from.\n *\n * @param {Array} [array=[]] The array to copy values to.\n *\n * @returns {Array}
Returns `array`.\n *\nfunction copyArray(source, array) {\n  var index = -1,\n      length = source.length;\n\n  array ||
(array = Array(length));\n  while (++index < length) {\n    array[index] = source[index];\n  }\n  return
array;\n}\n\n/**\n * Gets the data for `map`.\n *\n * @private\n * @param {Object} map The map to query.\n *\n * @param {string} key The reference key.\n *\n * @returns {*} Returns the map data.\n *\nfunction getMapData(map,
key) {\n  var data = map.__data__;\n  return isKeyable(key)\n    ? data[typeof key === 'string'
? 'string': 'hash']\n    : data.map;\n}\n\n/**\n * Gets the native function at `key` of `object`.\n *\n * @private\n *
@param {Object} object The object to query.\n *\n * @param {string} key The key of the method to get.\n *\n * @returns
{*} Returns the function if it's native, else `undefined`.\n *\nfunction getNative(object, key) {\n  var value =
getValue(object, key);\n  return baseIsNative(value) ? value : undefined;\n}\n\n/**\n * Checks if `value` is suitable
for use as unique object key.\n *\n * @private\n * @param {*} value The value to check.\n *\n * @returns {boolean}
Returns `true` if `value` is suitable, else `false`.\n *\nfunction isKeyable(value) {\n  var type = typeof value;\n
return (type === 'string' || type === 'number' || type === 'symbol' || type === 'boolean')\n    ? (value !== '__proto__')\n    :
(value === null);\n}\n\n/**\n * Checks if `func` has its source masked.\n *\n * @private\n * @param {Function}
func The function to check.\n *\n * @returns {boolean} Returns `true` if `func`
is masked, else `false`.\n *\nfunction isMasked(func) {\n  return !!maskSrcKey && (maskSrcKey in
func);\n}\n\n/**\n * Converts `string` to a property path array.\n *\n * @private\n * @param {string} string The
string to convert.\n *\n * @returns {Array} Returns the property path array.\n *\nvar stringToPath =
memoize(function(string) {\n  string = toString(string);\n\n  var result = [];\n  if (reLeadingDot.test(string)) {\n
result.push('.');\n  }\n  string.replace(rePropName, function(match, number, quote, string) {\n    result.push(quote ?
string.replace(reEscapeChar, '$1') : (number || match));\n  });\n  return result;\n});\n\n/**\n * Converts `value` to a
string key if it's not a string or symbol.\n *\n * @private\n * @param {*} value The value to inspect.\n *\n * @returns
{string|symbol} Returns the key.\n *\nfunction toKey(value) {\n  if (typeof value === 'string' || isSymbol(value)) {\n
return value;\n  }\n  var result = (value + '');\n  return (result === '0' && (1 / value) ===
-Infinity) ? '-0' : result;\n}\n\n/**\n * Converts `func` to its source code.\n *\n * @private\n * @param
{Function} func The function to process.\n *\n * @returns {string} Returns the source code.\n *\nfunction
toSource(func) {\n  if (func != null) {\n    try {\n      return funcToString.call(func);\n    } catch (e) {}\n    try {\n
return (func + '');\n    } catch (e) {} }\n  return '';\n}\n\n/**\n * Creates a function that memoizes the result of
`func`. If `resolver` is\n * provided, it determines the cache key for storing the result based on the\n * arguments
provided to the memoized function. By default, the first argument\n * provided to the memoized function is used as
the map cache key. The `func`\n * is invoked with the `this` binding of the memoized function.\n *\n * **Note:**\n * The cache is exposed as the `cache` property on the memoized\n * function. Its creation may be customized by
replacing the\n * `_.memoize.Cache`\n * constructor with one whose instances implement the\n
* [Map`](http://ecma-international.org/ecma-262/7.0/#sec-properties-of-the-map-prototype-object)\n * method
interface of `delete`, `get`, `has`, and `set`.\n *\n * @static\n * @memberOf _\n * @since 0.1.0\n * @category
Function\n * @param {Function} func The function to have its output memoized.\n * @param {Function}
[resolver] The function to resolve the cache key.\n * @returns {Function} Returns the new memoized function.\n *\n * @example\n *\n * var object = { 'a': 1, 'b': 2 };
\n * var other = { 'c': 3, 'd': 4 };
\n * var values =
_.memoize(_.values);\n * values(object);\n * // => [1, 2]\n *\n * values(other);\n * // => [3, 4]\n *\n * object.a = 2;\n
\n * values(object);\n * // => [1, 2]\n *\n * // Modify the result cache.\n * values.cache.set(object, ['a', 'b']);\n *
\n * values(object);\n * // => ['a', 'b']\n *\n * // Replace `_.memoize.Cache`.\n * _._memoize.Cache = WeakMap;\n
\n *\nfunction memoize(func, resolver) {\n  if (typeof func !== 'function' || (resolver && typeof resolver !== 'function'))\n
{\n    throw new TypeError(FUNC_ERROR_TEXT);\n  }\n  var memoized = function() {\n    var args =
arguments,\n        key = resolver ? resolver.apply(this, args) : args[0],\n        cache = memoized.cache;\n\n    if
(cache.has(key)) {\n      return cache.get(key);\n    }\n    var result = func.apply(this, args);\n    memoized.cache =
cache.set(key, result);\n    return result;\n  };
\n  memoized.cache = new (memoize.Cache || MapCache);\n  return
memoized;\n}\n\n// Assign cache to `_.memoize`.\n_.memoize.Cache = MapCache;\n\n/**\n * Performs a\n

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require('./compile/rules')\n , $dataMetaSchema = require('./$data')\n , patternGroups = require('./patternGroups')\n
, util = require('./compile/util')\n , co = require('co');\n\nmodule.exports = Ajv;\n\nAjv.prototype.validate
= validate;\nAjv.prototype.compile = compile;\nAjv.prototype.addSchema =
addSchema;\nAjv.prototype.addMetaSchema = addMetaSchema;\nAjv.prototype.validateSchema =
validateSchema;\nAjv.prototype.getSchema = getSchema;\nAjv.prototype.removeSchema =
removeSchema;\nAjv.prototype.addFormat = addFormat;\nAjv.prototype.errorsText =
errorsText;\n\nAjv.prototype._addSchema = _addSchema;\nAjv.prototype._compile =
_compile;\n\nAjv.prototype.compileAsync = require('./compile/async');\n\nvar customKeyword =
require('./keyword');\nAjv.prototype.addKeyword = customKeyword.add;\nAjv.prototype.getKeyword =
customKeyword.get;\nAjv.prototype.removeKeyword = customKeyword.remove;\n\nvar errorClasses =
require('./compile/error_classes');\nAjv.ValidationError = errorClasses.Validation;\nAjv.MissingRefError =
errorClasses.MissingRef;\nAjv.$dataMetaSchema = $dataMetaSchema;\n\nvar META_SCHEMA_ID = 'http://json-
schema.org/draft-06/schema';\n\nvar META_IGNORE_OPTIONS = [ 'removeAdditional', 'useDefaults',
'coerceTypes'
];\n\nvar META_SUPPORT_DATA = ['/properties'];\n\n\n/**\n * Creates validator instance.\n * Usage: `Ajv(opts)`\n
* @param {Object} opts optional options\n * @return {Object} ajv instance\n */\nfunction Ajv(opts) {\n if (!(this
instanceof Ajv)) return new Ajv(opts);\n  opts = this._opts = util.copy(opts) || {};\n  this._schemas = {};\n  this._refs
= {};\n  this._fragments = {};\n  this._formats = formats(opts.format);\n  var schemaUriFormat =
this._schemaUriFormat = this._formats['uri-reference'];\n  this._schemaUriFormatFunc = function (str) { return
schemaUriFormat.test(str); };\n  this._cache = opts.cache || new Cache;\n  this._loadingSchemas = {};\n  this._compilations = [];\n  this.RULES = rules();\n  this._getId = chooseGetId(opts);\n  opts.loopRequired =
opts.loopRequired || Infinity;\n  if (opts.errorDataPath == 'property') opts._errorDataPathProperty = true;\n  if
(opts.serialize === undefined) opts.serialize = stableStringify;\n  this._metaOpts = getMetaSchemaOptions(this);\n  if
(opts.formats) addInitialFormats(this);\n  addDraft6MetaSchema(this);\n  if (typeof opts.meta == 'object')
this.addMetaSchema(opts.meta);\n  addInitialSchemas(this);\n  if (opts.patternGroups)
patternGroups(this);\n}\n\n\n/**\n * Validate data using schema\n * Schema will be compiled and cached (using
serialized JSON as key. [json-stable-stringify](https://github.com/substack/json-stable-stringify) is used to
serialize.\n * @this Ajv\n * @param {String|Object} schemaKeyRef key, ref or schema object\n * @param
{Any} data to be validated\n * @return {Boolean} validation result. Errors from the last validation will be available
in `ajv.errors` (and also in compiled schema: `schema.errors`).\n */\nfunction validate(schemaKeyRef, data) {\n var
v;\n if (typeof schemaKeyRef == 'string') {\n   v = this.getSchema(schemaKeyRef);\n   if (!v) throw new Error('no
schema with key or ref \'' + schemaKeyRef + '\");\n } else {\n   var schemaObj =
this._addSchema(schemaKeyRef);\n   v = schemaObj.validate || this._compile(schemaObj);\n }\n\n var valid = v(data);\n if (v.$async === true)\n return this._opts.async == '*' ? co(valid) : valid;\n this.errors = v.errors;\n return valid;\n}\n\n\n/**\n * Create
validating function for passed schema.\n * @this Ajv\n * @param {Object} schema schema object\n * @param
{Boolean} _meta true if schema is a meta-schema. Used internally to compile meta schemas of custom keywords.\n
* @return {Function} validating function\n */\nfunction compile(schema, _meta) {\n var schemaObj =
this._addSchema(schema, undefined, _meta);\n return schemaObj.validate ||
this._compile(schemaObj);\n}\n\n\n/**\n * Adds schema to the instance.\n * @this Ajv\n * @param
{Object|Array} schema schema or array of schemas. If array is passed, `key` and other parameters will be ignored.\n
* @param {String} key Optional schema key. Can be passed to `validate` method instead of schema object or id/ref.
One schema per instance can have empty
`id` and `key`.\n * @param {Boolean} _skipValidation true to skip schema validation. Used internally, option
validateSchema should be used instead.\n * @param {Boolean} _meta true if schema is a meta-schema. Used
internally, addMetaSchema should be used instead.\n */\nfunction addSchema(schema, key, _skipValidation, _meta) {\n
if (Array.isArray(schema)){\n   for (var i=0; i<schema.length; i++) this.addSchema(schema[i], undefined,
_skipValidation, _meta);\n   return;\n }\n var id = this._getId(schema);\n if (id !== undefined && typeof id !=

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'string')\n  throw new Error('schema id must be string');\n  key = resolve.normalizeId(key || id);\n  checkUnique(this, key);\n  this._schemas[key] = this._addSchema(schema, _skipValidation, _meta,\n  true);\n}\n\n/**\n * Add schema that will be used to validate other schemas\n * options in\n META_IGNORE_OPTIONS are always set to false\n * @this Ajv\n * @param {Object} schema schema object\n * @param {String} key optional schema key\n * @param\n {Boolean} skipValidation true to skip schema validation, can be used to override validateSchema option for meta-\nschema\n */\nfunction addMetaSchema(schema, key, skipValidation) {\n  this.addSchema(schema, key,\n  skipValidation, true);\n}\n\n/**\n * Validate schema\n * @this Ajv\n * @param {Object} schema schema to\n validate\n * @param {Boolean} throwOrLogError pass true to throw (or log) an error if invalid\n * @return\n {Boolean} true if schema is valid\n */\nfunction validateSchema(schema, throwOrLogError) {\n  var $schema =\n schema.$schema;\n  if ($schema !== undefined && typeof $schema !== 'string')\n    throw new Error('$schema must\n be a string');\n  $schema = $schema || this._opts.defaultMeta || defaultMeta(this);\n  if (!$schema) {\n    console.warn('meta-schema not available');\n    this.errors = null;\n    return true;\n  }\n  var currentUriFormat =\n this._formats.uri;\n  this._formats.uri = typeof currentUriFormat === 'function'\n    ?\n    this._schemaUriFormatFunc\n    : this._schemaUriFormat;\n  var valid;\n  try { valid = this.validate($schema, schema); }\n  finally {\n    this._formats.uri = currentUriFormat;\n    if (!valid && throwOrLogError) {\n      var message = 'schema is invalid:\n + this.errorsText();\n      if (this._opts.validateSchema === 'log') console.error(message);\n      else throw new\n      Error(message);\n    }\n    return valid;\n  }\n}\n\nfunction defaultMeta(self) {\n  var meta = self._opts.meta;\n  self._opts.defaultMeta = typeof meta === 'object'\n    ? self._getId(meta) || meta\n    :\n    self.getSchema(META_SCHEMA_ID)\n    ? META_SCHEMA_ID\n    :\n    undefined;\n  return self._opts.defaultMeta;\n}\n\n/**\n * Get compiled schema from the instance by `key` or\n `ref`\n * @this Ajv\n * @param {String} keyRef `key` that was passed to `addSchema` or full schema reference\n (`schema.id` or resolved id).\n * @return {Function} schema validating\n function (with property `schema`)\n */\nfunction getSchema(keyRef) {\n  var schemaObj = _getSchemaObj(this,\n  keyRef);\n  switch (typeof schemaObj) {\n    case 'object': return schemaObj.validate || this._compile(schemaObj);\n    case 'string': return this.getSchema(schemaObj);\n    case 'undefined': return _getSchemaFragment(this, keyRef);\n  }\n}\n\nfunction _getSchemaFragment(self, ref) {\n  var res = resolve.schema.call(self, { schema: {} }, ref);\n  if\n (res) {\n    var schema = res.schema,\n        root = res.root,\n        baseId = res.baseId;\n    var v =\n compileSchema.call(self, schema, root, undefined, baseId);\n    self._fragments[ref] = new SchemaObject({\n      ref:\n ref,\n      fragment: true,\n      schema: schema,\n      root: root,\n      baseId: baseId,\n      validate: v\n    });\n    return\n v;\n  }\n}\n\nfunction _getSchemaObj(self, keyRef) {\n  keyRef = resolve.normalizeId(keyRef);\n  return\n self._schemas[keyRef] || self._refs[keyRef] || self._fragments[keyRef];\n}\n\n/**\n * Remove cached schema(s).\n * If no parameter is passed all schemas but meta-schemas are removed.\n * If\n RegExp is passed all schemas with key/id matching pattern but meta-schemas are removed.\n * Even if schema is\n referenced by other schemas it still can be removed as other schemas have local references.\n * @this Ajv\n * @param {String|Object|RegExp} schemaKeyRef key, ref, pattern to match key/ref or schema object\n */\nfunction\n removeSchema(schemaKeyRef) {\n  if (schemaKeyRef instanceof RegExp) {\n    _removeAllSchemas(this,\n    this._schemas, schemaKeyRef);\n    _removeAllSchemas(this, this._refs, schemaKeyRef);\n    return;\n  }\n  switch\n (typeof schemaKeyRef) {\n    case 'undefined':\n      _removeAllSchemas(this, this._schemas);\n      _removeAllSchemas(this, this._refs);\n      this._cache.clear();\n      return;\n    case 'string':\n      var schemaObj =\n      _getSchemaObj(this, schemaKeyRef);\n      if (schemaObj) this._cache.del(schemaObj.cacheKey);\n      delete\n      this._schemas[schemaKeyRef];\n      delete this._refs[schemaKeyRef];\n      return;\n    case 'object':\n      var\n      serialize = this._opts.serialize;\n      var cacheKey = serialize ? serialize(schemaKeyRef) : schemaKeyRef;\n      this._cache.del(cacheKey);\n      var id = this._getId(schemaKeyRef);\n      if (id) {\n        id =\n        resolve.normalizeId(id);\n        delete this._schemas[id];\n        delete this._refs[id];\n      }\n  }\n}\n\nfunction\n _removeAllSchemas(self, schemas, regex) {\n  for (var keyRef in schemas) {\n    var schemaObj =\n    schemas[keyRef];\n    if (!schemaObj.meta && (!regex || regex.test(keyRef))) {\n
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self._cache.del(schemaObj.cacheKey);\n  delete schemas[keyRef];\n  }\n }\n}\n\n/* @this Ajv */\nfunction\n_addSchema(schema, skipValidation, meta, shouldAddSchema) {\n  if (typeof schema !== 'object' && typeof schema\n  !== 'boolean')\n    throw new Error('schema should be object or boolean');\n  var serialize = this._opts.serialize;\n  var\n  cacheKey = serialize\n  ? serialize(schema) : schema;\n  var cached = this._cache.get(cacheKey);\n  if (cached) return cached;\n  var\n  shouldAddSchema = shouldAddSchema || this._opts.addUsedSchema !== false;\n  var id =\n  resolve.normalizeId(this._getId(schema));\n  if (id && shouldAddSchema) checkUnique(this, id);\n  var\n  willValidate = this._opts.validateSchema !== false && !skipValidation;\n  var recursiveMeta;\n  if (willValidate\n  && !(recursiveMeta = id && id === resolve.normalizeId(schema.$schema)))\n    this.validateSchema(schema,\n    true);\n  var localRefs = resolve.ids.call(this, schema);\n  var schemaObj = new SchemaObject({\n    id: id,\n    schema: schema,\n    localRefs: localRefs,\n    cacheKey: cacheKey,\n    meta: meta\n  });\n  if (id[0] !== '#' &&\n  shouldAddSchema) this._refs[id] = schemaObj;\n  this._cache.put(cacheKey, schemaObj);\n  if (willValidate &&\n  recursiveMeta) this.validateSchema(schema, true);\n  return schemaObj;\n}\n\n/* @this Ajv */\nfunction\n_compile(schemaObj, root)\n  {\n  if (schemaObj.compiling) {\n    schemaObj.validate = callValidate;\n    callValidate.schema =\n    schemaObj.schema;\n    callValidate.errors = null;\n    callValidate.root = root ? root : callValidate;\n    if\n    (schemaObj.schema.$async === true)\n      callValidate.$async = true;\n    return callValidate;\n  }\n  schemaObj.compiling = true;\n  var currentOpts;\n  if (schemaObj.meta) {\n    currentOpts = this._opts;\n    this._opts = this._metaOpts;\n  }\n  var v;\n  try { v = compileSchema.call(this, schemaObj.schema, root,\n  schemaObj.localRefs); }\n  finally {\n    schemaObj.compiling = false;\n    if (schemaObj.meta) this._opts =\n    currentOpts;\n  }\n  schemaObj.validate = v;\n  schemaObj.refs = v.refs;\n  schemaObj.refVal = v.refVal;\n  schemaObj.root = v.root;\n  return v;\n}\n\nfunction callValidate() {\n  var _validate = schemaObj.validate;\n  var\n  result = _validate.apply(null, arguments);\n  callValidate.errors = _validate.errors;\n  return result;\n}\n}\n}\n\nfunction\n_chooseGetId(opts) {\n  switch (opts.schemaId) {\n    case '$id': return _getId;\n    case 'id': return _getId;\n    default: return _getIdOrId;\n  }\n}\n\nfunction _getId(schema) {\n  if (schema.$id) console.warn('schema $id\n  ignored', schema.$id);\n  return schema.id;\n}\n\nfunction _getId(schema) {\n  if (schema.id)\n  console.warn('schema id ignored', schema.id);\n  return schema.$id;\n}\n\nfunction _getIdOrId(schema) {\n  if\n  (schema.$id && schema.id && schema.$id !== schema.id)\n    throw new Error('schema $id is different from id');\n  return schema.$id || schema.id;\n}\n\n/*\n * Convert array of error message objects to string\n * @this Ajv\n * @param {Array<Object>} errors optional array of validation errors, if not passed errors from the instance are\n  used.\n * @param {Object} options optional options with properties `separator` and `dataVar`\n * @return\n  {String} human readable string with all errors descriptions\n */\nfunction errorsText(errors, options) {\n  errors = errors || this.errors;\n  if (!errors) return 'No errors';\n  options = options || {};\n  var separator =\n  options.separator === undefined ? ', ' : options.separator;\n  var dataVar = options.dataVar === undefined ? 'data' :\n  options.dataVar;\n  var text = "";\n  for (var i=0; i<errors.length; i++) {\n    var e = errors[i];\n    if (e) text +=\n    dataVar + e.dataPath + ' ' + e.message + separator;\n  }\n  return text.slice(0, -separator.length);\n}\n\n/* Add\n  custom format\n * @this Ajv\n * @param {String} name format name\n * @param {String|RegExp|Function}\n  format string is converted to RegExp; function should return boolean (true when valid)\n */\nfunction\n_addFormat(name, format) {\n  if (typeof format === 'string') format = new RegExp(format);\n  this._formats[name] =\n  format;\n}\n\nfunction addDraft6MetaSchema(self) {\n  var $dataSchema;\n  if (self._opts.$data) {\n    $dataSchema = require('./refs/$data.json');\n    self.addMetaSchema($dataSchema, $dataSchema.$id,\n    true);\n  }\n  if (self._opts.meta === false) return;\n  var metaSchema = require('./refs/json-schema-draft-06.json');\n  if (self._opts.$data) metaSchema = $dataMetaSchema(metaSchema, META_SUPPORT_DATA);\n  self.addMetaSchema(metaSchema, META_SCHEMA_ID, true);\n  self._refs['http://json-schema.org/schema'] =\n  META_SCHEMA_ID;\n}\n\nfunction addInitialSchemas(self) {\n  var optsSchemas = self._opts.schemas;\n  if\n  (!optsSchemas) return;\n  if (Array.isArray(optsSchemas)) self.addSchema(optsSchemas);\n  else for (var key in\n  optsSchemas) self.addSchema(optsSchemas[key], key);\n}\n\nfunction addInitialFormats(self) {\n  for (var name

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in self._opts.formats) {\n  var format = self._opts.formats[name];\n  self.addFormat(name, format);\n}\n}\n\nfunction checkUnique(self, id) {\n  if (self._schemas[id] || self._refs[id])\n    throw new Error('schema with key or id \'' + id + '\" already exists');\n}\n\nfunction getMetaSchemaOptions(self) {\n  var metaOpts = util.copy(self._opts);\n\n  for (var i=0; i<META_IGNORE_OPTIONS.length; i++)\n    delete metaOpts[META_IGNORE_OPTIONS[i]];\n\n  return metaOpts;\n}\n\n// WEBPACK FOOTER //\n../~/ajv/lib/ajv.js","use strict";\n\nvar resolve = require('./resolve')\n  , util = require('./util')\n  , errorClasses = require('./error_classes')\n  , stableStringify = require('json-stable-stringify');\n\nvar validateGenerator = require('../dotjs/validate');\n\n/*\n * Functions below are used inside compiled validations\n */\n\nvar co = require('co');\nvar ucs2length = util.ucs2length;\nvar equal = require('fast-deep-equal');\n\n// this error is thrown by async schemas to return validation errors via exception\nvar ValidationError = errorClasses.Validation;\n\nmodule.exports = compile;\n\n/*\n * Compiles schema to validation function\n */\n\n@this Ajv\n@param {Object} schema schema object\n@param {Object} root root object with information about the root schema for this schema\n@param {Object} localRefs the hash of local references inside the schema (created by resolve.id), used for inline resolution\n@param {String} baseId base ID for IDs in the schema\n@return {Function} validation function\n\nfunction compile(schema, root, localRefs, baseId) {\n  /*\n   * jshint validthis: true, evil: true\n   * eslint no-shadow: 0\n   */\n  var self = this\n    , opts = this._opts\n    , refVal = [ undefined ]\n    , refs = {}\n    , patterns = []\n    , patternsHash = {}\n    , defaults = []\n    , defaultsHash = {}\n    , customRules = [];\n\n  root = root || { schema: schema, refVal: refVal, refs: refs };\n\n  var c = checkCompiling.call(this, schema, root, baseId);\n  var compilation = this._compilations[c.index];\n  if (c.compiling) return (compilation.callValidate = callValidate);\n\n  var formats = this._formats;\n  var RULES = this.RULES;\n\n  try {\n    var v = localCompile(schema, root, localRefs, baseId);\n    compilation.validate = v;\n    var cv = compilation.callValidate;\n    if (cv) {\n      cv.schema = v.schema;\n      cv.errors = null;\n      cv.refs = v.refs;\n      cv.refVal = v.refVal;\n      cv.root = v.root;\n      cv.$async = v.$async;\n      if (opts.sourceCode) cv.source = v.source;\n    }\n    return v;\n  } finally {\n    endCompiling.call(this, schema, root, baseId);\n  }\n\n  function callValidate() {\n    var validate = compilation.validate;\n    var result = validate.apply(null, arguments);\n    callValidate.errors = validate.errors;\n    return result;\n  }\n\n  function localCompile(_schema, _root, localRefs, baseId) {\n    var isRoot = !_root || (_root && _root.schema == _schema);\n    if (_root.schema != root.schema)\n      return compile.call(self, _schema, _root, localRefs, baseId);\n\n    var $async = _schema.$async === true;\n    var sourceCode = validateGenerator({\n      isTop: true,\n      schema: _schema,\n      isRoot: isRoot,\n      baseId: baseId,\n      root: _root,\n      schemaPath: "",\n      errSchemaPath: '#',\n      errorPath: ""\n    },\n    MissingRefError: errorClasses.MissingRef,\n    RULES: RULES,\n    validate: validateGenerator,\n    util: util,\n    resolve: resolve,\n    resolveRef: resolveRef,\n    usePattern: usePattern,\n    useDefault: useDefault,\n    useCustomRule: useCustomRule,\n    opts: opts,\n    formats: formats,\n    self: self\n  });\n\n    sourceCode =\n      vars(refVal, refValCode) + vars(patterns, patternCode)\n        + vars(defaults, defaultCode) +\n      vars(customRules, customRuleCode)\n        + sourceCode;\n\n    if (opts.processCode) sourceCode =\n      opts.processCode(sourceCode);\n    // console.log("JSON.stringify(sourceCode)");\n    var validate;\n    try {\n      var makeValidate = new Function(\n        'self',\n        'RULES',\n        'formats',\n        'root',\n        'refVal',\n        'defaults',\n        'customRules',\n        'co',\n        'equal',\n        'ucs2length',\n        'ValidationError',\n        sourceCode\n      );\n      validate = makeValidate(\n        self,\n        RULES,\n        formats,\n        root,\n        refVal,\n        defaults,\n        customRules,\n        co,\n        equal,\n        ucs2length,\n        ValidationError\n      );\n      refVal[0] = validate;\n    } catch (e) {\n      console.error('Error compiling schema, function code:', sourceCode);\n      throw e;\n    }\n\n    validate.schema = _schema;\n    validate.errors = null;\n    validate.refs = refs;\n    validate.refVal = refVal;\n    validate.root = isRoot ? validate : _root;\n    if ($async) validate.$async = true;\n    if (opts.sourceCode === true) {\n      validate.source = {\n        code: sourceCode,\n        patterns: patterns,\n        defaults: defaults\n      };\n    }\n\n    return validate;\n  }\n\n  function resolveRef(baseId, ref, isRoot) {\n    ref = resolve.url(baseId, ref);\n    var refIndex = refs[ref];\n    var _refVal, refCode;\n    if (refIndex !== undefined) {\n

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_refVal =
  refVal[refIndex];\n  refCode = 'refVal[' + refIndex + ']';\n  return resolvedRef(_refVal, refCode);\n }\n if
(!isRoot && root.refs) {\n  var rootRefId = root.refs[ref];\n  if (rootRefId !== undefined) {\n    _refVal =
root.refVal[rootRefId];\n    refCode = addLocalRef(ref, _refVal);\n    return resolvedRef(_refVal, refCode);\n
  }\n }\n\n  refCode = addLocalRef(ref);\n  var v = resolve.call(self, localCompile, root, ref);\n  if (v ===
undefined) {\n    var localSchema = localRefs && localRefs[ref];\n    if (localSchema) {\n      v =
resolve.inlineRef(localSchema, opts.inlineRefs)\n      ? localSchema\n      : compile.call(self, localSchema,
root, localRefs, baseId);\n    }\n  }\n\n  if (v === undefined) {\n    removeLocalRef(ref);\n  } else {\n
replaceLocalRef(ref, v);\n    return resolvedRef(v, refCode);\n  }\n }\n\n  function addLocalRef(ref, v) {\n  var
refId = refVal.length;\n  refVal[refId] =
v;\n  refs[ref] = refId;\n  return 'refVal' + refId;\n }\n\n  function removeLocalRef(ref) {\n  delete refs[ref];\n
}\n\n  function replaceLocalRef(ref, v) {\n  var refId = refs[ref];\n  refVal[refId] = v;\n }\n\n  function
resolvedRef(refVal, code) {\n  return typeof refVal === 'object' || typeof refVal === 'boolean'\n    ? { code: code,
schema: refVal, inline: true }\n    : { code: code, $async: refVal && refVal.$async };\n }\n\n  function
usePattern(regexStr) {\n  var index = patternsHash[regexStr];\n  if (index === undefined) {\n    index =
patternsHash[regexStr] = patterns.length;\n    patterns[index] = regexStr;\n  }\n  return 'pattern' + index;\n }\n\n
function useDefault(value) {\n  switch (typeof value) {\n    case 'boolean':\n    case 'number':\n      return " +
value;\n    case 'string':\n      return util.toQuotedString(value);\n    case 'object':\n      if (value === null) return
'null';\n      var valueStr = stableStringify(value);\n
      var index = defaultsHash[valueStr];\n      if (index === undefined) {\n        index = defaultsHash[valueStr] =
defaults.length;\n        defaults[index] = value;\n      }\n      return 'default' + index;\n    }\n  }\n\n  function
useCustomRule(rule, schema, parentSchema, it) {\n  var validateSchema = rule.definition.validateSchema;\n  if
(validateSchema && self._opts.validateSchema !== false) {\n    var valid = validateSchema(schema);\n    if
(!valid) {\n      var message = 'keyword schema is invalid: ' + self.errorsText(validateSchema.errors);\n      if
(self._opts.validateSchema === 'log') console.error(message);\n      else throw new Error(message);\n    }\n  }\n\n
var compile = rule.definition.compile\n  , inline = rule.definition.inline\n  , macro = rule.definition.macro;\n\n  var
validate;\n  if (compile) {\n    validate = compile.call(self, schema, parentSchema, it);\n  } else if (macro) {\n
validate
= macro.call(self, schema, parentSchema, it);\n    if (opts.validateSchema !== false) self.validateSchema(validate,
true);\n  } else if (inline) {\n    validate = inline.call(self, it, rule.keyword, schema, parentSchema);\n  } else {\n
validate = rule.definition.validate;\n    if (!validate) return;\n  }\n\n  if (validate === undefined)\n    throw new
Error('custom keyword \'' + rule.keyword + '\' failed to compile');\n\n  var index = customRules.length;\n
customRules[index] = validate;\n  return {\n    code: 'customRule' + index,\n    validate: validate\n  };\n
}\n\n\n  /**\n   * Checks if the schema is currently compiled\n   * @this Ajv\n   * @param {Object} schema schema
to compile\n   * @param {Object} root root object\n   * @param {String} baseId base schema ID\n   * @return
{Object} object with properties "index" (compilation index) and "compiling" (boolean)\n   */\n  function
checkCompiling(schema, root, baseId) {\n  /* jshint validthis: true */\n
var index = compIndex.call(this, schema, root, baseId);\n  if (index >= 0) return { index: index, compiling: true };\n
index = this._compilations.length;\n  this._compilations[index] = {\n    schema: schema,\n    root: root,\n    baseId:
baseId\n  };\n  return { index: index, compiling: false };\n }\n\n\n  /**\n   * Removes the schema from the currently
compiled list\n   * @this Ajv\n   * @param {Object} schema schema to compile\n   * @param {Object} root root
object\n   * @param {String} baseId base schema ID\n   */\n  function endCompiling(schema, root, baseId) {\n  /*
jshint validthis: true */\n  var i = compIndex.call(this, schema, root, baseId);\n  if (i >= 0) this._compilations.splice(i,
1);\n }\n\n\n  /**\n   * Index of schema compilation in the currently compiled list\n   * @this Ajv\n   * @param
{Object} schema schema to compile\n   * @param {Object} root root object\n   * @param {String} baseId base
schema ID\n   * @return {Integer} compilation index\n   */\n  function compIndex(schema, root, baseId)
{\n  /* jshint validthis: true */\n  for (var i=0; i<this._compilations.length; i++) {\n    var c = this._compilations[i];\n
if (c.schema === schema && c.root === root && c.baseId === baseId) return i;\n  }\n  return -1;\n }\n\n\n  function

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patternCode(i, patterns) {\n return 'var pattern' + i + ' = new RegExp(' + util.toQuotedString(patterns[i]) +
');';\n}\n\nfunction defaultCode(i) {\n return 'var default' + i + ' = defaults[' + i + '];';\n}\n\nfunction
refValCode(i, refVal) {\n return refVal[i] === undefined ? " : 'var refVal' + i + ' = refVal[' + i +
'];';\n}\n\nfunction customRuleCode(i) {\n return 'var customRule' + i + ' = customRules[' + i +
'];';\n}\n\nfunction vars(arr, statement) {\n if (!arr.length) return ";\n var code = ";\n for (var i=0; i<arr.length;
i++)\n code += statement(i, arr);\n return code;\n}\n\n\n// WEBPACK FOOTER /\n//
../~/ajv/lib/compile/index.js", "use strict";\n\nvar url = require('url')\n , equal = require('fast-deep-equal')\n
, util = require('./util')\n , SchemaObject = require('./schema_obj')\n , traverse = require('json-schema-
traverse');\n\nmodule.exports = resolve;\n\nresolve.normalizeId = normalizeId;\nresolve.fullPath =
getFullPath;\n\nresolve.url = resolveUrl;\n\nresolve.ids = resolveIds;\n\nresolve.inlineRef = inlineRef;\n\nresolve.schema =
resolveSchema;\n\n\n/**\n * [resolve and compile the references ($ref)]\n * @this Ajv\n * @param {Function}
compile reference to schema compilation function (localCompile)\n * @param {Object} root object with
information about the root schema for the current schema\n * @param {String} ref reference to resolve\n * @return
{Object|Function} schema object (if the schema can be inlined) or validation function\n */\nfunction
resolve(compile, root, ref) {\n /* jshint validthis: true */\n var refVal = this._refs[ref];\n if (typeof refVal ===
'string') {\n if (this._refs[refVal]) refVal = this._refs[refVal];\n else return resolve.call(this, compile, root,
refVal);\n
}\n\n refVal = refVal || this._schemas[ref];\n if (refVal instanceof SchemaObject) {\n return
inlineRef(refVal.schema, this._opts.inlineRefs)\n ? refVal.schema\n : refVal.validate ||
this._compile(refVal);\n }\n\n var res = resolveSchema.call(this, root, ref);\n var schema, v, baseId;\n if (res) {\n
schema = res.schema;\n root = res.root;\n baseId = res.baseId;\n }\n\n if (schema instanceof SchemaObject) {\n
v = schema.validate || compile.call(this, schema.schema, root, undefined, baseId);\n } else if (schema !==
undefined) {\n v = inlineRef(schema, this._opts.inlineRefs)\n ? schema\n : compile.call(this, schema,
root, undefined, baseId);\n }\n\n return v;\n}\n\n\n/**\n * Resolve schema, its root and baseId\n * @this Ajv\n *
@param {Object} root root object with properties schema, refVal, refs\n * @param {String} ref reference to
resolve\n * @return {Object} object with properties schema, root, baseId\n */\nfunction
resolveSchema(root, ref) {\n /* jshint validthis: true */\n var p = url.parse(ref, false, true)\n , refPath =
_getFullPath(p)\n , baseId = getFullPath(this._getId(root.schema));\n if (refPath !== baseId) {\n var id =
normalizeId(refPath);\n var refVal = this._refs[id];\n if (typeof refVal === 'string') {\n return
resolveRecursive.call(this, root, refVal, p);\n } else if (refVal instanceof SchemaObject) {\n if
(!refVal.validate) this._compile(refVal);\n root = refVal;\n } else {\n refVal = this._schemas[id];\n if
(refVal instanceof SchemaObject) {\n if (!refVal.validate) this._compile(refVal);\n if (id ===
normalizeId(ref))\n return { schema: refVal, root: root, baseId: baseId };\n root = refVal;\n } else {\n
return;\n }\n }\n if (!root.schema) return;\n baseId = getFullPath(this._getId(root.schema));\n }\n return
getJSONPointer.call(this, p, baseId, root.schema, root);\n}\n\n\n/**
@param Ajv */\nfunction resolveRecursive(root, ref, parsedRef) {\n /* jshint validthis: true */\n var res =
resolveSchema.call(this, root, ref);\n if (res) {\n var schema = res.schema;\n var baseId = res.baseId;\n root =
res.root;\n var id = this._getId(schema);\n if (id) baseId = resolveUrl(baseId, id);\n return
getJSONPointer.call(this, parsedRef, baseId, schema, root);\n }\n}\n\n\nvar PREVENT_SCOPE_CHANGE =
util.toHash(['properties', 'patternProperties', 'enum', 'dependencies', 'definitions']);\n\n/** @this Ajv */\nfunction
getJSONPointer(parsedRef, baseId, schema, root) {\n /* jshint validthis: true */\n parsedRef.hash = parsedRef.hash ||
";\n if (parsedRef.hash.slice(0,2) !== '#') return;\n var parts = parsedRef.hash.split('/');\n for (var i = 1; i <
parts.length; i++) {\n var part = parts[i];\n if (part) {\n part = util.unescapeFragment(part);\n schema =
schema[part];\n if (schema === undefined) break;\n var id;\n if (!PREVENT_SCOPE_CHANGE[part])
{\n id = this._getId(schema);\n if (id) baseId = resolveUrl(baseId, id);\n if (schema.$ref) {\n var
$ref = resolveUrl(baseId, schema.$ref);\n var res = resolveSchema.call(this, root, $ref);\n if (res) {\n
schema = res.schema;\n root = res.root;\n baseId = res.baseId;\n }\n }\n }\n }\n }\n if
(schema !== undefined && schema !== root.schema)\n return { schema: schema, root: root, baseId: baseId

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};\n}\n\nvar SIMPLE_INLINED = util.toHash([\n 'type', 'format', 'pattern',\n 'maxLength', 'minLength',\n 'maxProperties', 'minProperties',\n 'maxItems', 'minItems',\n 'maximum', 'minimum',\n 'uniqueItems',\n 'multipleOf',\n 'required', 'enum'\n]);\nfunction inlineRef(schema, limit) {\n if (limit === false) return false;\n if (limit === undefined || limit === true) return checkNoRef(schema);\n else if (limit) return countKeys(schema) <= limit;\n}\n\nfunction checkNoRef(schema) {\n var item;\n if (Array.isArray(schema)) {\n for (var i=0; i<schema.length; i++) {\n item = schema[i];\n if (typeof item === 'object' && !checkNoRef(item)) return false;\n }\n } else {\n for (var key in schema) {\n if (key === '$ref') return false;\n item = schema[key];\n if (typeof item === 'object' && !checkNoRef(item)) return false;\n }\n }\n return true;\n}\n\nfunction countKeys(schema) {\n var count = 0, item;\n if (Array.isArray(schema)) {\n for (var i=0; i<schema.length; i++) {\n item = schema[i];\n if (typeof item === 'object') count += countKeys(item);\n if (count === Infinity) return Infinity;\n }\n } else {\n for (var key in schema) {\n if (key === '$ref') return Infinity;\n if (SIMPLE_INLINED[key]) {\n count++;\n }\n else {\n item = schema[key];\n if (typeof item === 'object') count += countKeys(item) + 1;\n if (count === Infinity) return Infinity;\n }\n }\n }\n return count;\n}\n\nfunction getFullPath(id, normalize) {\n if (normalize !== false) id = normalizeId(id);\n var p = url.parse(id, false, true);\n return _getFullPath(p);\n}\n\nfunction _getFullPath(p) {\n var protocolSeparator = p.protocol || p.href.slice(0,2) === '// ? // : ';\n return (p.protocol||") + protocolSeparator + (p.host||") + (p.path||") + '#';\n}\n\nvar TRAILING_SLASH_HASH = '#\\|/?$';\nfunction normalizeId(id) {\n return id ? id.replace(TRAILING_SLASH_HASH, "") : '';\n}\n\nfunction resolveUrl(baseId, id) {\n id = normalizeId(id);\n return url.resolve(baseId, id);\n}\n\n/* @this Ajv */\nfunction resolveIds(schema) {\n var schemaId = normalizeId(this._getId(schema));\n var baseIds = {};\n var fullPaths = {};\n getFullPath(schemaId, false);\n var localRefs = {};\n var self = this;\n\n traverse(schema, {allKeys: true}, function(sch, jsonPtr, rootSchema, parentJsonPtr, parentKeyword, parentSchema, keyIndex) {\n if (jsonPtr === '') return;\n var id = self._getId(sch);\n var baseId = baseIds[parentJsonPtr];\n var fullPath = fullPaths[parentJsonPtr] + '/' + parentKeyword;\n if (keyIndex !== undefined)\n fullPath += '/' + (typeof keyIndex === 'number' ? keyIndex : util.escapeFragment(keyIndex));\n\n if (typeof id === 'string') {\n id = baseId = normalizeId(baseId ? url.resolve(baseId, id) : id);\n var refVal = self._refs[id];\n if (typeof refVal === 'string') refVal = self._refs[refVal];\n if (refVal && refVal.schema) {\n if (!equal(sch, refVal.schema))\n throw new Error('id \'' + id + '\" resolves to more than one schema');\n } else if (id !== normalizeId(fullPath)) {\n if (id[0] === '#') {\n if (localRefs[id] && !equal(sch, localRefs[id]))\n throw new Error('id \'' + id + '\" resolves to more than one schema');\n localRefs[id] = sch;\n } else {\n self._refs[id] = fullPath;\n }\n }\n }\n\n baseIds[jsonPtr] = baseId;\n fullPaths[jsonPtr] = fullPath;\n });\n\n return localRefs;\n}\n\n\n// WEBPACK FOOTER //\n// ..~/ajv/lib/compile/resolve.js", "Copyright Joyent, Inc. and other Node contributors.\n// Permission is hereby granted, free of charge, to any person obtaining a\n// copy of this software and associated documentation files (the\n// \"Software\"), to deal in the Software without restriction, including\n// without limitation the rights to use, copy, modify, merge, publish,\n// distribute, sublicense, and/or sell copies of the Software, and to permit\n// persons to whom the Software is furnished to do so, subject to the\n// following conditions:\n// The above copyright notice and this permission notice shall be included\n// in all copies or substantial portions of the Software.\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n// OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF\n// MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\nvar punycode = require('punycode');\nexports.parse = urlParse;\nexports.resolve = urlResolve;\nexports.resolveObject = urlResolveObject;\nexports.format = urlFormat;\nexports.Url =

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Url;\n\nfunction Url() {\n  this.protocol = null;\n  this.slashes = null;\n  this.auth = null;\n  this.host = null;\n  this.port = null;\n  this.hostname = null;\n  this.hash = null;\n  this.search = null;\n  this.query = null;\n  this.pathname = null;\n  this.path = null;\n  this.href = null;\n}\n\n// Reference: RFC 3986, RFC 1808, RFC 2396\n\n// define these here so at least they only have to be\n// compiled once on the first module load.\nvar\nprotocolPattern =\n  /^[a-z0-9.+~:/?:@%$&#-]*$/i,\n  portPattern = /^[0-9]*$/i,\n  // RFC 2396: characters reserved for delimiting URLs.\n  // We actually just auto-escape these.\n  delims = ['<', '>', '\\\"', '\\\'', '\\`', '\\r', '\\n', '\\t'],\n  // RFC 2396: characters not\n  // allowed for various reasons.\n  unwise = ['{', '}', '|', '\\\\', '\\^', '\\~'].concat(delims),\n  // Allowed by RFCs, but cause\n  // of XSS attacks. Always escape these.\n  autoEscape = ['\\'].concat(unwise),\n  // Characters that are never ever\n  // allowed in a hostname.\n  // Note that any invalid chars are also handled, but these\n  // are the ones that are\n  // *expected* to be seen, so we fast-path\n  // them.\n  nonHostChars = ['%', '/', '?', ';', '#'].concat(autoEscape),\n  hostEndingChars = ['/', '?', '#'],\n  hostnameMaxLen = 255,\n  hostnamePartPattern = /^[a-z0-9A-Z_-]{0,63}$/i,\n  hostnamePartStart = /^[a-z0-9A-Z_-]{0,63}(.*)$/i,\n  // protocols that can allow \"unsafe\" and \"unwise\" chars.\n  unsafeProtocol\n    = {\n      'javascript': true,\n      'javascript:': true\n    },\n  // protocols that never have a hostname.\n  hostlessProtocol = {\n    'javascript': true,\n    'javascript:': true\n  },\n  // protocols that always contain a // bit.\n  slashedProtocol = {\n    'http': true,\n    'https': true,\n    'ftp': true,\n    'gopher': true,\n    'file': true,\n    'http:':\n      true,\n    'https:':\n      true,\n    'ftp:':\n      true,\n    'gopher:':\n      true,\n    'file:':\n      true\n  },\n  querystring =\n    require('querystring');\n\nfunction urlParse(url, parseQueryString, slashesDenoteHost) {\n  if (url && isObject(url)\n    && url instanceof Url) return url;\n  var u = new Url();\n  u.parse(url, parseQueryString, slashesDenoteHost);\n  return u;\n}\n\nUrl.prototype.parse = function(url, parseQueryString, slashesDenoteHost) {\n  if (!isString(url)) {\n    throw new TypeError(\"Parameter 'url' must be a string, not \" +\n      typeof url);\n  }\n  var rest = url;\n  // trim\n  // before proceeding.\n  // This is to support parse stuff like \" http://foo.com \\n\".\n  rest = rest.trim();\n  var proto =\n    protocolPattern.exec(rest);\n  if (proto) {\n    proto = proto[0];\n    var lowerProto = proto.toLowerCase();\n    this.protocol = lowerProto;\n    rest = rest.substr(proto.length);\n  }\n  // figure out if it's got a host\n  // user@server is *always* interpreted as a hostname, and url\n  // resolution will treat //foo/bar as host=foo,path=bar\n  // because that's\n  // how the browser resolves relative URLs.\n  if (slashesDenoteHost || proto ||\n    rest.match(/^\\s*[\\s\\/\\?@%$&#-]+/)) {\n    var slashes = rest.substr(0, 2) === '//';\n    if (slashes && !(proto &&\n      hostlessProtocol[proto])) {\n      rest = rest.substr(2);\n      this.slashes = true;\n    }\n  }\n  if (!hostlessProtocol[proto] &&\n    (slashes || (proto && !slashedProtocol[proto]))) {\n    // there's a hostname.\n    // the first instance of /, ?, :, or # ends the host.\n    // If there is an @ in\n    // the hostname, then non-host chars *are* allowed\n    // to the left of the last @ sign, unless some host-ending\n    // character\n    // comes *before* the @-sign.\n    // URLs are obnoxious.\n    // ex:\n    // http://a@b@c/ =>\n    // user:a@b host:c\n    // http://a@b?@c => user:a host:c path:?@c\n    // v0.12 TODO(isaacs): This is not quite how\n    // Chrome does things.\n    // Review our test case against browsers more comprehensively.\n    // find the first\n    // instance of any hostEndingChars\n    var hostEnd = -1;\n    for (var i = 0; i < hostEndingChars.length; i++) {\n      var hec = rest.indexOf(hostEndingChars[i]);\n      if (hec !== -1 && (hostEnd === -1 || hec < hostEnd))\n        hostEnd = hec;\n    }\n    // at this point, either we have an explicit point where the\n    // auth portion cannot go\n    // past, or the last @ char is the decider.\n    var auth, atSign;\n    if (hostEnd === -1) {\n      // atSign can be\n      // anywhere.\n      atSign = rest.lastIndexOf('@');\n    } else {\n      //\n      // atSign must be in auth portion.\n      // http://a@b/c@d => host:b auth:a path:/c@d\n      atSign =\n        rest.lastIndexOf('@', hostEnd);\n    }\n    // Now we have a portion which is definitely the auth.\n    // Pull that\n    // off.\n    if (atSign !== -1) {\n      auth = rest.slice(0, atSign);\n      rest = rest.slice(atSign + 1);\n      this.auth =\n        decodeURIComponent(auth);\n    }\n    // the host is the remaining to the left of the first non-host char\n    hostEnd = -1;\n    for (var i = 0; i < nonHostChars.length; i++) {\n      var hec = rest.indexOf(nonHostChars[i]);\n      if (hec\n        !== -1 && (hostEnd === -1 || hec < hostEnd))\n        hostEnd = hec;\n    }\n    // if we still have not hit it, then the\n    // entire thing is a host.\n    if (hostEnd === -1)\n      hostEnd = rest.length;\n    this.host = rest.slice(0, hostEnd);\n  }

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rest = rest.slice(hostEnd);\n\n // pull out port.\n this.parseHost();\n\n // we've indicated that there is a
hostname,\n // so even if it's empty, it has
to be present.\n this.hostname = this.hostname || ";\n\n // if hostname begins with [ and ends with ]\n // assume
that it's an IPv6 address.\n var ipv6Hostname = this.hostname[0] === '[' &&\n
this.hostname[this.hostname.length - 1] === '];\n\n // validate a little.\n if (!ipv6Hostname) {\n var hostparts
= this.hostname.split(/\\./);\n for (var i = 0, l = hostparts.length; i < l; i++) {\n var part = hostparts[i];\n if
(!part) continue;\n if (!part.match(hostnamePartPattern)) {\n var newpart = ";\n for (var j = 0, k =
part.length; j < k; j++) {\n if (part.charCodeAt(j) > 127) {\n // we replace non-ASCII char with a
temporary placeholder\n // we need this to make sure size of hostname is not\n // broken by
replacing non-ASCII by nothing\n newpart += 'x';\n } else {\n newpart += part[j];\n
}\n }\n
// we test again with ASCII char only\n if (!newpart.match(hostnamePartPattern)) {\n var validParts =
hostparts.slice(0, i);\n var notHost = hostparts.slice(i + 1);\n var bit = part.match(hostnamePartStart);\n
if (bit) {\n validParts.push(bit[1]);\n notHost.unshift(bit[2]);\n }\n if
(notHost.length) {\n rest = '/' + notHost.join('.') + rest;\n }\n this.hostname =
validParts.join('.);\n break;\n }\n }\n }\n\n if (this.hostname.length > hostnameMaxLen)
{\n this.hostname = ";\n } else {\n // hostnames are always lower case.\n this.hostname =
this.hostname.toLowerCase();\n }\n\n if (!ipv6Hostname) {\n // IDNA Support: Returns a puny coded
representation of \"domain\".\n // It only converts the part of the domain name that\n // has non ASCII
characters. I.e. it dosent matter
if\n // you call it with a domain that already is in ASCII.\n var domainArray = this.hostname.split('.);\n var
newOut = [];\n for (var i = 0; i < domainArray.length; ++i) {\n var s = domainArray[i];\n
newOut.push(s.match(/^[^A-Za-z0-9_-]/) ?\n 'xn--' + punycode.encode(s) : s);\n }\n this.hostname =
newOut.join('.);\n }\n\n var p = this.port ? ':' + this.port : ";\n var h = this.hostname || ";\n this.host = h + p;\n
this.href += this.host;\n\n // strip [ and ] from the hostname\n // the host field still retains them, though\n if
(ipv6Hostname) {\n this.hostname = this.hostname.substr(1, this.hostname.length - 2);\n if (rest[0] !== '/') {\n
rest = '/' + rest;\n }\n }\n\n // now rest is set to the post-host stuff.\n // chop off any delim chars.\n if
(!unsafeProtocol[lowerProto]) {\n\n // First, make 100% sure that any \"autoEscape\" chars get\n // escaped, even
if encodeURIComponent
doesn't think they\n // need to be.\n for (var i = 0, l = autoEscape.length; i < l; i++) {\n var ae =
autoEscape[i];\n var esc = encodeURIComponent(ae);\n if (esc === ae) {\n esc = escape(ae);\n }\n
rest = rest.split(ae).join(esc);\n }\n }\n\n // chop off from the tail first.\n var hash = rest.indexOf('#);\n if (hash
!== -1) {\n // got a fragment string.\n this.hash = rest.substr(hash);\n rest = rest.slice(0, hash);\n }\n var qm =
rest.indexOf('?);\n if (qm !== -1) {\n this.search = rest.substr(qm);\n this.query = rest.substr(qm + 1);\n if
(parseQueryString) {\n this.query = querystring.parse(this.query);\n }\n rest = rest.slice(0, qm);\n } else if
(parseQueryString) {\n // no query string, but parseQueryString still requested\n this.search = ";\n this.query =
{};\n }\n }\n if (rest) this.pathname = rest;\n if (slashedProtocol[lowerProto] &&\n this.hostname &&
!this.pathname)
{\n this.pathname = ';\n }\n\n //to support http.request\n if (this.pathname || this.search) {\n var p =
this.pathname || ";\n var s = this.search || ";\n this.path = p + s;\n }\n\n // finally, reconstruct the href based on
what has been validated.\n this.href = this.format();\n return this;\n};\n\n// format a parsed object into a url
string\nfunction urlFormat(obj) {\n // ensure it's an object, and not a string url.\n // If it's an obj, this is a no-op.\n //
this way, you can call url_format() on strings\n // to clean up potentially wonky urls.\n if (isString(obj)) obj =
urlParse(obj);\n if (!(obj instanceof Url)) return Url.prototype.format.call(obj);\n return
obj.format();\n}\n\nUrl.prototype.format = function() {\n var auth = this.auth || ";\n if (auth) {\n auth =
encodeURIComponent(auth);\n auth = auth.replace(/%3A/i, ':);\n auth += '@';\n }\n\n var protocol =
this.protocol || ";\n pathname = this.pathname || ";\n hash = this.hash

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    || ",\n    host = false,\n    query = ";\n\n    if (this.host) {\n        host = auth + this.host;\n    } else if (this.hostname) {\n        host = auth + (this.hostname.indexOf('.') === -1 ?\n            this.hostname :\n            '[' + this.hostname + ']');\n    } if\n    (this.port) {\n        host += ':' + this.port;\n    }\n\n    if (this.query &&\n        !Object(this.query) &&\n        Object.keys(this.query).length) {\n        query = querystring.stringify(this.query);\n    }\n\n    var search = this.search ||\n    (query && ('?' + query)) || ";\n\n    if (protocol && protocol.substr(-1) !== ':') protocol += ";\n\n    // only the\n    slashedProtocols get the //. Not mailto:, xmpp:, etc.\n    // unless they had them to begin with.\n    if (this.slashes ||\n    (!protocol || slashedProtocol[protocol]) && host !== false) {\n        host = '/' + (host || ");\n        if (pathname &&\n        pathname.charAt(0) !== '/') pathname = '/' + pathname;\n    } else if (!host) {\n        host = ";\n    }\n\n    if (hash &&\n    hash.charAt(0) !== '#')\n        hash = '#' + hash;\n    if (search && search.charAt(0) !== '?') search = '?' + search;\n\n    pathname =\n    pathname.replace(/[#]/g, function(match) {\n        return encodeURIComponent(match);\n    });\n    search =\n    search.replace('#', '%23');\n\n    return protocol + host + pathname + search + hash;\n};\n\nfunction\n    urlResolve(source, relative) {\n        return urlParse(source, false, true).resolve(relative);\n    }\n\n    Url.prototype.resolve =\n    function(relative) {\n        return this.resolveObject(urlParse(relative, false, true)).format();\n    };\n\n    function\n    urlResolveObject(source, relative) {\n        if (!source) return relative;\n        return urlParse(source, false,\n        true).resolveObject(relative);\n    }\n\n    Url.prototype.resolveObject = function(relative) {\n        if (isString(relative)) {\n            var rel = new Url();\n            rel.parse(relative, false, true);\n            relative = rel;\n        }\n\n        var result = new Url();\n        Object.keys(this).forEach(function(k) {\n            result[k] = this[k];\n        }, this);\n\n        // hash is always overridden, no matter\n        what.\n        // even href="" will remove it.\n        result.hash = relative.hash;\n\n        // if the relative url is empty, then there's\n        nothing left to do here.\n        if (relative.href === "") {\n            result.href = result.format();\n            return result;\n        }\n\n        // hrefs\n        like //foo/bar always cut to the protocol.\n        if (relative.slashes && !relative.protocol) {\n            // take everything except\n            the protocol from relative\n            Object.keys(relative).forEach(function(k) {\n                if (k !== 'protocol')\n                    result[k] =\n                    relative[k];\n            });\n            //urlParse appends trailing / to urls like http://www.example.com\n            if\n            (slashedProtocol[result.protocol] &&\n            result.hostname && !result.pathname) {\n                result.path =\n                result.pathname = ";\n            }\n            result.href = result.format();\n            return result;\n        }\n\n        if (relative.protocol &&\n        relative.protocol !== result.protocol) {\n            // if it's a known url protocol, then changing\n            // the protocol does weird\n            things\n            // first, if it's not file;\n            then we MUST have a host,\n            // and if there was a path\n            // to begin with, then we MUST have a path.\n            // if it\n            is file:, then the host is dropped,\n            // because that's known to be hostless.\n            // anything else is assumed to be\n            absolute.\n            if (!slashedProtocol[relative.protocol]) {\n                Object.keys(relative).forEach(function(k) {\n                    result[k] = relative[k];\n                });\n                result.href = result.format();\n                return result;\n            }\n            result.protocol =\n            relative.protocol;\n            if (!relative.host && !hostlessProtocol[relative.protocol]) {\n                var relPath =\n                (relative.pathname || "").split("/);\n                while (relPath.length && !(relative.host = relPath.shift()));\n                if\n                (!relative.host) relative.host = ";\n                if (!relative.hostname) relative.hostname = ";\n                if (relPath[0] !== "")\n                relPath.unshift("");\n                if (relPath.length < 2) relPath.unshift("");\n                result.pathname = relPath.join("/);\n            } else\n            {\n                result.pathname = relative.pathname;\n            }\n\n            result.search = relative.search;\n            result.query = relative.query;\n            result.host = relative.host || ";\n            result.auth = relative.auth;\n            result.hostname = relative.hostname || relative.host;\n            result.port = relative.port;\n\n            // to support http.request\n            if (result.pathname || result.search) {\n                var p = result.pathname || ";\n                var s =\n                result.search || ";\n                result.path = p + s;\n            }\n            result.slashes = result.slashes || relative.slashes;\n            result.href =\n            result.format();\n            return result;\n        }\n\n        var isSourceAbs = (result.pathname && result.pathname.charAt(0) ===\n        '/'),\n        isRelAbs = (\n            relative.host ||\n            relative.pathname && relative.pathname.charAt(0) === '/'\n        ),\n        mustEndAbs = (isRelAbs || isSourceAbs ||\n        (result.host && relative.pathname)),\n        removeAllDots = mustEndAbs,\n        srcPath = result.pathname && result.pathname.split("/") || [],\n        relPath =\n        relative.pathname\n        && relative.pathname.split("/") || [],\n        psychotic = result.protocol && !slashedProtocol[result.protocol];\n\n        // if\n        the url is a non-slashed url, then relative\n        // links like ../ should be able\n        // to crawl up to the hostname, as well.\n        This is strange.\n        // result.protocol has already been set by now.\n        // Later on, put the first path part into the host

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field.\n if (psychotic) {\n  result.hostname = ";\n  result.port = null;\n  if (result.host) {\n    if (srcPath[0] === ")
srcPath[0] = result.host;\n    else srcPath.unshift(result.host);\n  }\n  result.host = ";\n  if (relative.protocol) {\n
  relative.hostname = null;\n  relative.port = null;\n  if (relative.host) {\n    if (relPath[0] === ") relPath[0] =
relative.host;\n    else relPath.unshift(relative.host);\n  }\n  relative.host = null;\n  }\n  mustEndAbs =
mustEndAbs && (relPath[0] === " || srcPath[0] === ");\n  }\n  if (isRelAbs) {\n    // it's
absolute.\n    result.host = (relative.host || relative.host === " ?\n      relative.host : result.host;\n
result.hostname = (relative.hostname || relative.hostname === " ?\n      relative.hostname :
result.hostname;\n  result.search = relative.search;\n  result.query = relative.query;\n  srcPath = relPath;\n  // fall
through to the dot-handling below.\n  } else if (relPath.length) {\n    // it's relative\n    // throw away the existing file,
and take the new path instead.\n    if (!srcPath) srcPath = [];\n    srcPath.pop();\n    srcPath =
srcPath.concat(relPath);\n    result.search = relative.search;\n    result.query = relative.query;\n  } else if
(!isNullOrUndefined(relative.search)) {\n    // just pull out the search.\n    // like href='?foo'.\n    // Put this after the
other two cases because it simplifies the booleans\n    if (psychotic) {\n      result.hostname = result.host =
srcPath.shift();\n      //occasionally the auth can get stuck
only in host\n      //this especialy happens in cases like\n      //url.resolveObject('mailto:local1@domain1',
'local2@domain2')\n      var authInHost = result.host && result.host.indexOf('@') > 0 ?\n
result.host.split('@') : false;\n      if (authInHost) {\n        result.auth = authInHost.shift();\n        result.host =
result.hostname = authInHost.shift();\n      }\n    }\n    result.search = relative.search;\n    result.query =
relative.query;\n    //to support http.request\n    if (!isNull(result.pathname) || !isNull(result.search)) {\n      result.path
= (result.pathname ? result.pathname : ") +\n        (result.search ? result.search : ");\n    }\n    result.href =
result.format();\n    return result;\n  }\n  if (!srcPath.length) {\n    // no path at all. easy.\n    // we've already
handled the other stuff above.\n    result.pathname = null;\n    //to support http.request\n    if (result.search) {\n
result.path = '/' + result.search;\n
  } else {\n    result.path = null;\n  }\n  result.href = result.format();\n  return result;\n }\n\n // if a url ENDS in
. or ..., then it must get a trailing slash.\n // however, if it ends in anything else non-slashy,\n // then it must NOT get
a trailing slash.\n var last = srcPath.slice(-1)[0];\n var hasTrailingSlash = (\n  (result.host || relative.host) &&
(last === '.' || last === '..') ||\n  last === ");\n\n // strip single dots, resolve double dots to parent dir\n // if the path
tries to go above the root, `up` ends up > 0\n var up = 0;\n for (var i = srcPath.length; i >= 0; i--) {\n  last =
srcPath[i];\n  if (last === '.') {\n    srcPath.splice(i, 1);\n  } else if (last === '..') {\n    srcPath.splice(i, 1);\n
up++;\n  } else if (up) {\n    srcPath.splice(i, 1);\n    up--;\n  }\n }\n\n // if the path is allowed to go above the
root, restore leading ..s\n if (!mustEndAbs && !removeAllDots) {\n  for (; up--;) {\n
srcPath.unshift('.');\n  }\n }\n\n if (mustEndAbs && srcPath[0] !== " &&\n  (!srcPath[0] ||
srcPath[0].charAt(0) !== '/') {\n  srcPath.unshift(");\n }\n\n if (hasTrailingSlash && (srcPath.join('/').substr(-1)
!== '/')) {\n  srcPath.push(");\n }\n\n var isAbsolute = srcPath[0] === " ||\n  (srcPath[0] &&
srcPath[0].charAt(0) === '/');\n\n // put the host back\n if (psychotic) {\n  result.hostname = result.host =
isAbsolute ? " :;\n      srcPath.length ? srcPath.shift() : ";\n  //occasionally the auth can get stuck
only in host\n  //this especialy happens in cases like\n  //url.resolveObject('mailto:local1@domain1',
'local2@domain2')\n  var authInHost = result.host && result.host.indexOf('@') > 0 ?\n
result.host.split('@') : false;\n  if (authInHost) {\n    result.auth = authInHost.shift();\n    result.host =
result.hostname = authInHost.shift();\n  }\n }\n\n mustEndAbs = mustEndAbs || (result.host
&& srcPath.length);\n\n if (mustEndAbs && !isAbsolute) {\n  srcPath.unshift(");\n }\n\n if (!srcPath.length) {\n
result.pathname = null;\n  result.path = null;\n  } else {\n    result.pathname = srcPath.join('/');\n  }\n\n //to support
request.http\n  if (!isNull(result.pathname) || !isNull(result.search)) {\n    result.path = (result.pathname ?
result.pathname : ") +\n      (result.search ? result.search : ");\n    result.auth = relative.auth || result.auth;\n
result.slashes = result.slashes || relative.slashes;\n    result.href = result.format();\n    return
result;\n  }\n\n\nUrl.prototype.parseHost = function() {\n  var host = this.host;\n  var port = portPattern.exec(host);\n  if
(port) {\n    port = port[0];\n    if (port !== ':') {\n      this.port = port.substr(1);\n    }\n    host = host.substr(0,
host.length - port.length);\n  }\n  if (host) this.hostname = host;\n};\n\nfunction isString(arg) {\n  return typeof arg

```

```

=== `string`;
function
isObject(arg) {
  return typeof arg === 'object' && arg !== null;
}
function isNull(arg) {
  return arg ===
  null;
}
function isNullOrUndefined(arg) {
  return arg == null;
}
// WEBPACK FOOTER
//
./~/url/url.js", /*! https://mths.be/punycode v1.3.2 by @mathias */
(function(root) {
  /** Detect free variables
  */
  var freeExports = typeof exports === 'object' && exports && exports.nodeType && exports;
  var freeModule = typeof module === 'object' && module && module.nodeType && module;
  var freeGlobal =
  typeof global === 'object' && global;
  if (!freeGlobal.global === freeGlobal || !freeGlobal.window ===
  freeGlobal || !freeGlobal.self === freeGlobal) {
    /** The `punycode`
    object.
    */
    @name punycode
    @type Object
    */
    var punycode,
    /** Highest positive signed 32-bit
    float value
    */
    tmaxInt = 2147483647, // aka. 0x7FFFFFFF or 2^31-1
    /** Bootstring parameters
    */
    tbase = 36,
    tMin = 1,
    tMax = 26,
    tskew = 38,
    tdamp = 700,
    tinitialBias = 72,
    tinitialN = 128, //
    0x80
    tdelimiter = '-', // '\x2D'
    /** Regular expressions
    */
    tregexPunycode = /^xn--/,
    tregexNonASCII =
    /[\^\x20-\x7E]/, // unprintable ASCII chars + non-ASCII chars
    tregexSeparators =
    /[\x2E\u3002\uFF0E\uFF61]/g, // RFC 3490 separators
    /** Error messages
    */
    terrors = {
      'overflow':
      'Overflow: input needs wider integers to process',
      'not-basic': 'Illegal input >= 0x80 (not a basic code
      point)',
      'invalid-input': 'Invalid input'
    },
    /** Convenience shortcuts
    */
    tbaseMinusTMin = base -
    tMin,
    tfloor = Math.floor,
    tstringFromCharCode = String.fromCharCode,
    /** Temporary variable
    */
    tkey;

    /**-----
    */
    /** A generic error utility
    function.
    */
    @private
    @param {String} type The error type.
    @returns {Error} Throws a `RangeError`
    with the applicable
    error message.
    */
    function error(type) {
      throw RangeError(errors[type]);
    }
    /** A generic
    `Array#map` utility function.
    */
    @private
    @param {Array} array The array to iterate over.
    @param
    {Function} callback The function that gets called for every array
    item.
    @returns {Array} A new array of
    values returned by the callback function.
    */
    function map(array, fn) {
      var length = array.length;
      var result = [];
      while (length--) {
        result[length] = fn(array[length]);
      }
      return result;
    }
    /** A
    simple `Array#map`-like wrapper to work with domain name strings or email
    addresses.
    */
    @private
    @param {String} domain The domain name or email address.
    @param {Function} callback The function that
    gets called for every
    character.
    @returns {Array} A new string of characters returned by the callback
    function.
    */
    function mapDomain(string, fn) {
      var parts = string.split('@');
      var result = '';
      if (parts.length > 1) {
        // In email addresses, only the domain
        name should be punycoded. Leave
        the local part (i.e. everything up to `@`) intact.
        result = parts[0] +
        '@';
        tstring = parts[1];
        // Avoid `split(regex)` for IE8 compatibility. See #17.
        tstring =
        string.replace(tregexSeparators, '\x2E');
        var labels = string.split('.');
        var encoded = map(labels,
        fn).join('.');
        return result + encoded;
      }
      /** Creates an array containing the numeric code points of
      each Unicode
      character in the string. While JavaScript uses UCS-2 internally,
      this function will convert a
      pair of surrogate halves (each of which
      UCS-2 exposes as separate characters) into a single code point,
      matching UTF-16.
      */
      @see `punycode.ucs2.encode`
      @see <https://mathiasbynens.be/notes/javascript-
      encoding>
      @memberOf punycode.ucs2
      @name decode
      @param
      {String} string The Unicode input string (UCS-2).
      @returns {Array} The new array of code points.
      */
      function ucs2decode(string) {
        var output = [],
        counter = 0,
        length = string.length,
        value,
        extra;
        while (counter < length) {
          value = string.charCodeAt(counter++);
          if (value >=
          0xD800 && value <= 0xDBFF && counter < length) {
            // high surrogate, and there is a next
            character
            extra = string.charCodeAt(counter++);
            if ((extra & 0xFC00) == 0xDC00) { // low
            surrogate
            output.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);
          } else {
            // unmatched surrogate; only append this code unit, in case the next
            code unit is the high surrogate of a
            surrogate pair
            output.push(value);
            counter--;
          }
        } else {
          output.push(value);
        }
        return output;
      }
      /** Creates a string based on an
      */

```



```
n);
return ucs2encode(output);
}
/**
 * Converts a string of Unicode symbols (e.g. a domain
 * name label) to a Punycode string of ASCII-only
 * symbols.
 * @memberOf punycode
 * @param {String} input The string of Unicode
 * symbols.
 * @returns {String} The resulting Punycode
 * string of ASCII-only symbols.
 */
function encode(input) {
  var n, delta, handledCPCount, basicLength,
      bias, j, m, q, k, t, currentValue, output = [],
      i, inputLength,
      tMin, tMax;
  output = [];
  inputLength = input.length;
  handledCPCountPlusOne = 1;
  baseMinusT = 1;
  qMinusT = 0;
  // Convert the input in UCS-2 to Unicode
  input = ucs2decode(input);
  // Cache the length
  inputLength = input.length;
  // Initialize the state
  t = initialN;
  delta = 0;
  bias = initialBias;
  // Handle the basic code points
  for (j = 0; j < inputLength; ++j) {
    currentValue = input[j];
    if (currentValue < 0x80)
      output.push(stringFromCharCode(currentValue));
  }
  handledCPCount = basicLength = output.length;
  // `handledCPCount` is the number of code points that
  // have been handled; `basicLength` is the number
  // of basic code points.
  // Finish the basic string - if it is not empty -
  // with a delimiter
  if (basicLength) {
    output.push(delimiter);
  }
  // Main encoding loop:
  while (handledCPCount < inputLength) {
    // All non-basic code points < n have been
    // handled already. Find the next larger
    // one:
    for (
      m = maxInt, j = 0; j < inputLength; ++j) {
      currentValue = input[j];
      if (currentValue >= n &&
          currentValue < m) {
        tm = currentValue;
      }
      // Increase `delta` enough to advance the
      // decoder's <n,i> state to <m,0>, but guard
      // against overflow
      handledCPCountPlusOne =
        handledCPCount + 1;
      if (m - n > floor((maxInt - delta) /
          handledCPCountPlusOne)) {
        error('overflow');
      }
      delta += (m - n) * handledCPCountPlusOne;
      t = m;
    }
    for (j = 0; j < inputLength; ++j) {
      currentValue = input[j];
      if (currentValue < n && ++delta > maxInt) {
        error('overflow');
      }
      if (currentValue == n) {
        // Represent delta as a generalized
        // variable-length integer
        for (q = delta, k = base; /* no condition */;
            k += base) {
          tt = k <= bias ?
            tMin : (k >= bias + tMax ?
              tMax : k - bias);
          if (q < t) {
            tbreak;
          }
          tMinusT = q - t;
          baseMinusT = base - t;
          output.push(stringFromCharCode(
            digitToBasic(tMinusT %
              baseMinusT, 0)));
          tqMinusT = floor(qMinusT /
            baseMinusT);
          output.push(stringFromCharCode(
            digitToBasic(q, 0)));
          bias = adapt(delta, handledCPCountPlusOne,
            handledCPCount == basicLength);
          delta = 0;
          handledCPCount += handledCPCount;
          ++delta;
          ++n;
        }
      }
    }
    return output.join('');
  }
}
/**
 * Converts a Punycode string representing a domain
 * name or an email address to Unicode. Only the
 * Punycode parts of the input will be converted,
 * i.e. it doesn't matter if you call it on a
 * string that has already been converted to
 * Unicode.
 * @memberOf punycode
 * @param {String} input The Punycode domain
 * name or email address to convert to Unicode.
 * @returns {String} The Unicode representation
 * of the given Punycode string.
 */
function toUnicode(input) {
  return mapDomain(input, function(string) {
    return regexPunycode.test(string) ?
      decode(string.slice(4).toLowerCase()) :
      string;
  });
}
/**
 * Converts a Unicode string representing a domain
 * name or an email address to Punycode. Only the
 * non-ASCII parts of the domain name will be
 * converted, i.e. it doesn't matter if you call
 * it with a domain that's already in ASCII.
 * @memberOf punycode
 * @param {String} input The domain name or
 * email address to convert, as a Unicode string.
 * @returns {String} The Punycode representation
 * of the given domain name or email address.
 */
function toASCII(input) {
  return mapDomain(input, function(string) {
    return regexNonASCII.test(string) ?
      'xn--' + encode(string) :
      string;
  });
}

```

```

  Define the public API
  punycode = {
    version: '1.3.2',
    /**
     * A string representing the current Punycode.js
     * version.
     * @memberOf punycode
     * @type String
     */
    version: '1.3.2',
    /**
     * An object of methods to convert from JavaScript's
     * internal character representation (UCS-2) to
     * Unicode code points, and

```

```

    /**
     * A string representing the current Punycode.js
     * version.
     * @memberOf punycode
     * @type String
     */
    version: '1.3.2',
    /**
     * An object of methods to convert from JavaScript's
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```

    /**
     * A string representing the current Punycode.js
     * version.
     * @memberOf punycode
     * @type String
     */
    version: '1.3.2',
    /**
     * An object of methods to convert from JavaScript's
     * internal character representation (UCS-2) to
     * Unicode code points, and

```



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```
use strict;
var stringifyPrimitive = function(v) {
  switch (typeof v) {
    case 'string':
      return v;
    case 'boolean':
      return v ? 'true' : 'false';
    case 'number':
      return isFinite(v) ? v : "";
    default:
      return "";
  }
};
module.exports = function(obj, sep, eq, name) {
  sep = sep || '&';
  eq = eq || '=';
  if (obj === null) {
    obj = undefined;
  }
  if (typeof obj === 'object') {
    return Object.keys(obj).map(function(k) {
      var ks = encodeURIComponent(stringifyPrimitive(k)) + eq;
      if (Array.isArray(obj[k])) {
        return obj[k].map(function(v) {
          return ks + encodeURIComponent(stringifyPrimitive(v));
        }).join(sep);
      }
      else {
        return ks + encodeURIComponent(stringifyPrimitive(obj[k]));
      }
    }).join(sep);
  }
  if (!name) return "";
  return encodeURIComponent(stringifyPrimitive(name)) + eq + encodeURIComponent(stringifyPrimitive(obj));
};
// WEBPACK FOOTER
./~/quystring/encode.js", "use strict";
module.exports = function equal(a, b) {
  if (a === b) return true;
  var arrA = Array.isArray(a), arrB = Array.isArray(b), i;
  if (arrA && arrB) {
    if (a.length !== b.length) return false;
    for (i = 0; i < a.length; i++) {
      if (!equal(a[i], b[i])) return false;
    }
    return true;
  }
  if (arrA !== arrB) return false;
  if (a && b && typeof a === 'object' && typeof b === 'object') {
    var keys = Object.keys(a);
    if (keys.length !== Object.keys(b).length) return false;
    var dateA = a instanceof Date, dateB = b instanceof Date;
    if (dateA && dateB) return a.getTime() === b.getTime();
    if (dateA !== dateB) return false;
    var regexpA = a instanceof RegExp, regexpB = b instanceof RegExp;
    if (regexpA && regexpB) return a.toString() === b.toString();
    if (regexpA !== regexpB) return false;
    for (i = 0; i < keys.length; i++) {
      if (!Object.prototype.hasOwnProperty.call(b, keys[i])) return false;
      for (i = 0; i < keys.length; i++) {
        if (!equal(a[keys[i]], b[keys[i]])) return false;
      }
    }
    return true;
  }
  return false;
};
// WEBPACK FOOTER
./~/fast-deep-equal/index.js", "use strict";
module.exports = {
  copy: copy,
  checkDataType: checkDataType,
  checkDataTypes: checkDataTypes,
  coerceToTypes: coerceToTypes,
  toHash: toHash,
  getProperty: getProperty,
  escapeQuotes: escapeQuotes,
  equal: require('fast-deep-equal'),
  ucs2length: require('./ucs2length'),
  varOccurrences: varOccurrences,
  varReplace: varReplace,
  cleanUpCode: cleanUpCode,
  finalCleanUpCode: finalCleanUpCode,
  schemaHasRules: schemaHasRules,
  schemaHasRulesExcept: schemaHasRulesExcept,
  toQuotedString: toQuotedString,
  getPathExpr: getPathExpr,
  getPath: getPath,
  getData: getData,
  unescapeFragment: unescapeFragment,
  unescapeJsonPointer: unescapeJsonPointer,
  escapeFragment: escapeFragment,
  escapeJsonPointer: escapeJsonPointer
};
function copy(o, to) {
  to = to || {};
  for (var key in o) to[key] = o[key];
  return to;
}
function checkDataType(dataType, data, negate) {
  var EQUAL = negate ? '!=' : '===', AND = negate ? ' &&' : '&', OK = negate ? '!' : '', NOT = negate ? '!' : '';
  switch (dataType) {
    case 'null': return data + EQUAL + 'null';
    case 'array': return OK + 'Array.isArray(' + data + ')';
    case 'object': return '(' + OK + data + AND + 'typeof ' + data + EQUAL + '"object"' + AND + 'NOT ' + 'Array.isArray(' + data + ')';
    case 'integer': return '(typeof ' + data + EQUAL + '"number"' + AND + 'NOT ' + '(' + data + ' % 1)' + AND + 'AND ' + data + EQUAL + data + ')';
    default: return 'typeof ' + data + EQUAL + '"' + dataType + '"';
  }
}
function checkDataTypes(dataTypes, data) {
  switch (dataTypes.length) {
    case 1: return checkDataType(dataTypes[0], data, true);
    default:
      var code = '';
      var types = toHash(dataTypes);
      if (types.array && types.object) {
        code = types.null ? '(' : '(' + data + ' || ';
        code += 'typeof ' + data + ' !== "object"';
        delete types.null;
        delete

```



```

types.array;\n    delete types.object;\n    }\n    if (types.number) delete types.integer;\n    for (var t in types)\n        code += (code ? ' && ' : ' ') + checkDataType(t, data, true);\n    return code;\n    }\n}\n\nCOERCE_TO_TYPES = toHash([ 'string', 'number', 'integer', 'boolean', 'null' ]);\n\nfunction\ncoerceToTypes(optionCoerceTypes, dataTypes) {\n    if (Array.isArray(dataTypes)) {\n        var types = [];\n        for (var\n            i=0; i<dataTypes.length; i++) {\n            var t = dataTypes[i];\n            if (COERCE_TO_TYPES[t]) types[types.length] =\n                t;\n            else if (optionCoerceTypes === 'array' && t === 'array') types[types.length] = t;\n        }\n        if (types.length)\n            return types;\n    } else if (COERCE_TO_TYPES[dataTypes]) {\n        return [dataTypes];\n    }\n    else if (optionCoerceTypes === 'array' && dataTypes === 'array') {\n        return ['array'];\n    }\n}\n\nfunction\n    toHash(arr) {\n        var hash = {};\n        for (var i=0; i<arr.length; i++) hash[arr[i]] = true;\n        return hash;\n    }\n\n    IDENTIFIER = /^[a-z$_][a-z$_0-9]*$/i;\n    nvar SINGLE_QUOTE = /'\\\\\\\\/g;\n    nfunction getProperty(key) {\n        return\n            typeof key === 'number'\n                ? '[' + key + ']'\n                : IDENTIFIER.test(key)\n                    ? '!' + key\n                    : '[' + key +\n                        escapeQuotes(key) + '']';\n    }\n\n    nfunction escapeQuotes(str) {\n        return str.replace(SINGLE_QUOTE, '\\\\\\$&')\n            .replace(/\\n/g, '\\\\\\n')\n            .replace(/\\r/g, '\\\\\\r')\n            .replace(/\\f/g, '\\\\\\f')\n            .replace(/\\t/g,\n                '\\\\\\t');\n    }\n\n    nfunction varOccurrences(str, dataVar) {\n        dataVar += '[^0-9]';\n        var matches = str.match(new\n            RegExp(dataVar, 'g'));\n        return matches ? matches.length : 0;\n    }\n\n    nfunction varReplace(str, dataVar, expr) {\n        dataVar += '[^0-9]';\n\n        expr = expr.replace(/\\$/g, '$$$$');\n        return str.replace(new RegExp(dataVar, 'g'), expr + '$1');\n    }\n\n    nvar\n        EMPTY_ELSE = /else\\s*{\\s*}/g\n        , EMPTY_IF_NO_ELSE = /if\\s*\\{[^}+\\}\\s*{\\s*}\\{?!\\s*else\\}/g\n        ,\n        EMPTY_IF_WITH_ELSE = /if\\s*{\\{[^}+\\}\\s*{\\s*}\\{?!\\s*if\\}/g;\n    nfunction cleanUpCode(out) {\n        return out.replace(EMPTY_ELSE, "")\n            .replace(EMPTY_IF_NO_ELSE, "")\n            .replace(EMPTY_IF_WITH_ELSE, 'if (!$1)');\n    }\n\n    nvar ERRORS_REGEXP = /[^\n].errors/g\n        ,\n        REMOVE_ERRORS = /var errors = 0;|var vErrors = null;|validate.errors = vErrors;/g\n        ,\n        REMOVE_ERRORS_ASYNC = /var errors = 0;|var vErrors = null;/g\n        , RETURN_VALID = 'return errors ===\n            0;'\n        , RETURN_TRUE = 'validate.errors = null; return true;'\n        , RETURN_ASYNC = /if \\(errors === 0\\) return\n            data;\\s*else throw new ValidationError\\(vErrors\\);/;\n    nvar RETURN_DATA_ASYNC = 'return data;'\n        ,\n        ROOTDATA_REGEXP = /^[A-Za-z_$]rootData[^A-Za-z0-9_$]/g\n        , REMOVE_ROOTDATA = /if \\(rootData\n            === undefined\\) rootData = data;/;\n    nfunction finalCleanUpCode(out, async) {\n        var matches =\n            out.match(ERRORS_REGEXP);\n        if (matches && matches.length === 2) {\n            out = async\n                ?\n                out.replace(REMOVE_ERRORS_ASYNC, "")\n                    .replace(RETURN_ASYNC,\n                        RETURN_DATA_ASYNC)\n                : out.replace(REMOVE_ERRORS, "")\n                    .replace(RETURN_VALID,\n                        RETURN_TRUE);\n        }\n        matches = out.match(ROOTDATA_REGEXP);\n        if (!matches || matches.length !== 3)\n            return out;\n        return out.replace(REMOVE_ROOTDATA, "");\n    }\n\n    nfunction schemaHasRules(schema, rules) {\n        if (typeof schema === 'boolean') return !schema;\n        for (var key in schema) if (rules[key]) return\n            true;\n    }\n\n    nfunction schemaHasRulesExcept(schema, rules, exceptKeyword) {\n        if (typeof schema === 'boolean')\n            return !schema && exceptKeyword !== 'not';\n        for (var key in schema) if (key !== exceptKeyword && rules[key])\n            return true;\n    }\n\n    nfunction toQuotedString(str) {\n        return '"' + escapeQuotes(str) + '"';\n    }\n\n    nfunction\n        getPathExpr(currentPath, expr, jsonPointers, isNumber) {\n            var path = jsonPointers // false by default\n                ?\n                '\\/\\/' + ' + expr + (isNumber ? ' : '.replace(/~/g, '\\~0\\').replace(/\\\\\\\\/g, '\\~1\\\\\\\\'))\n                    : (isNumber ? '\\/\\/' + ' +\n                    expr + ' + '\\/\\/' : '\\/\\/' + ' + expr + ' + '\\/\\/' );\n            return joinPaths(currentPath, path);\n        }\n\n    nfunction\n        getPath(currentPath, prop, jsonPointers) {\n            var path = jsonPointers // false by default\n                ? toQuotedString('/\n                + escapeJsonPointer(prop))\n                    : toQuotedString(getProperty(prop));\n            return joinPaths(currentPath,\n                path);\n        }\n\n    nvar JSON_POINTER = /^\\(\\{?:[^\n]~0~1\\}*$/;\n    nvar RELATIVE_JSON_POINTER = /^(0-9\n        +)(#|\\(\\{?:[^\n]~0~1\\}*\\)?$/;\n    nfunction getData($data, lvl, paths) {\n        var up, jsonPointer, data, matches;\n        if ($data\n            === ") return 'rootData';\n        if ($data[0] === '/') {\n            if (!JSON_POINTER.test($data)) throw new Error('Invalid\n                JSON-pointer: ' + $data);\n            jsonPointer = $data;\n            data = 'rootData';\n        } else {\n            matches =\n                $data.match(RELATIVE_JSON_POINTER);\n            if (!matches) throw new Error('Invalid JSON-pointer: ' + $data);\n            up = +matches[1];\n            jsonPointer = matches[2];\n            if (jsonPointer === '#') {\n                if (up >= lvl) throw new

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Error('Cannot access property/index ' + up + ' levels up, current level is ' + lvl);\n    return paths[lvl - up];\n    }\n\n    if (up > lvl) throw new Error('Cannot access data ' + up + ' levels up, current level is ' + lvl);\n    data = 'data' + ((lvl - up) || '');\n    if (!jsonPointer) return data;\n    }\n\n    var expr = data;\n    var segments = jsonPointer.split('/');\n    for (var i=0; i<segments.length; i++) {\n        var segment = segments[i];\n        if (segment) {\n            data +=\n                getProperty(unescapeJsonPointer(segment));\n            expr += '&&' + data;\n        }\n    }\n    return expr;\n}\n\n\nfunction\njoinPaths (a, b) {\n    if (a == "") return b;\n    return (a + ' ' + b).replace(/\\|+ /g,\n\n    ");\n}\n\n\nfunction unescapeFragment(str) {\n    return\n    unescapeJsonPointer(decodeURIComponent(str));\n}\n\n\nfunction escapeFragment(str) {\n    return\n    encodeURIComponent(escapeJsonPointer(str));\n}\n\n\nfunction escapeJsonPointer(str) {\n    return str.replace(/~/g,\n    '~0').replace(/\\/g, '\\~1');\n}\n\n\nfunction unescapeJsonPointer(str) {\n    return str.replace(/~1/g, '/').replace(/~0/g,\n    '~');\n}\n\n\n\n// WEBPACK FOOTER /\n// ../~/ajv/lib/compile/util.js","use strict";\n\n//\n\nhttps://mathiasbynens.be/notes/javascript-encoding\n// https://github.com/bestiejs/punycode.js -\n\npunycode.ucs2.decode\nmodule.exports = function ucs2length(str) {\n    var length = 0\n    , len = str.length\n    , pos\n    = 0\n    , value;\n    while (pos < len) {\n        length++;\n        value = str.charCodeAt(pos++);\n        if (value >= 0xD800\n        && value <= 0xDBFF && pos < len) {\n            // high surrogate, and there is a next character\n            value =\n            str.charCodeAt(pos);\n            if ((value & 0xFC00) == 0xDC00) pos++; // low surrogate\n\n            }\n        }\n    }\n    return length;\n};\n\n\n\n// WEBPACK FOOTER /\n// ../~/ajv/lib/compile/ucs2length.js","use\n    strict";\n\nvar util = require('./util');\nmodule.exports = SchemaObject;\n\nfunction SchemaObject(obj) {\n    util.copy(obj, this);\n}\n\n\n\n// WEBPACK FOOTER /\n// ../~/ajv/lib/compile/schema_obj.js","use strict";\n\nvar\n    traverse = module.exports = function (schema, opts, cb) {\n        if (typeof opts == 'function') {\n            cb = opts;\n            opts =\n            {};\n        }\n        _traverse(opts, cb, schema, "", schema);\n    };\n\n    traverse.keywords = {\n        additionalItems: true,\n        items:\n        true,\n        contains: true,\n        additionalProperties: true,\n        propertyName: true,\n        not:\n        true\n    };\n\n    traverse.arrayKeywords = {\n        items: true,\n        allOf: true,\n        anyOf: true,\n        oneOf:\n        true\n    };\n\n    traverse.propsKeywords = {\n        definitions: true,\n        properties: true,\n        patternProperties: true,\n        dependencies: true\n    };\n\n    traverse.skipKeywords = {\n        enum: true,\n        const: true,\n        required: true,\n        maximum:\n        true,\n        minimum:\n        true,\n        exclusiveMaximum: true,\n        exclusiveMinimum: true,\n        multipleOf: true,\n        maxLength: true,\n        minLength: true,\n        pattern: true,\n        format: true,\n        maxItems: true,\n        minItems: true,\n        uniqueItems: true,\n        maxProperties: true,\n        minProperties: true\n    };\n\n    function _traverse(opts, cb, schema, jsonPtr, rootSchema,\n    parentJsonPtr, parentKeyword, parentSchema, keyIndex) {\n        if (schema && typeof schema == 'object' &&\n        !Array.isArray(schema)) {\n            cb(schema, jsonPtr, rootSchema, parentJsonPtr, parentKeyword, parentSchema,\n            keyIndex);\n            for (var key in schema) {\n                var sch = schema[key];\n                if (Array.isArray(sch)) {\n                    if (key in\n                    traverse.arrayKeywords) {\n                        for (var i=0; i<sch.length; i++)\n                            _traverse(opts, cb, sch[i], jsonPtr + '/' +\n                            key + '/' + i, rootSchema, jsonPtr, key, schema, i);\n                    }\n                } else if (key in traverse.propsKeywords) {\n                    if\n                    (sch && typeof sch == 'object') {\n                        for (var prop in sch)\n                            _traverse(opts, cb, sch[prop], jsonPtr + '/' + key + '/' +\n                            escapeJsonPointer(prop), rootSchema, jsonPtr, key, schema,\n                            prop);\n                    }\n                } else if (key in traverse.keywords || (opts.allKeys && !(key in\n                traverse.skipKeywords))) {\n                    _traverse(opts, cb, sch, jsonPtr + '/' + key, rootSchema, jsonPtr, key, schema);\n                }\n            }\n        }\n    }\n\n    escapeJsonPtr(str) {\n        return str.replace(/~/g, '~0').replace(/\\/g, '\\~1');\n    }\n\n\n\n\n// WEBPACK FOOTER /\n//\n    ../~/json-schema-traverse/index.js","use strict";\n\nvar resolve = require('./resolve');\nmodule.exports = {\n    Validation: errorSubclass(ValidationError),\n    MissingRef: errorSubclass(MissingRefError)\n};\n\n\n\nfunction\n    ValidationError(errors) {\n        this.message = 'validation failed';\n        this.errors = errors;\n        this.ajv = this.validation =\n        true;\n    }\n\n    MissingRefError.message = function (baseId, ref) {\n        return 'can\\'t resolve reference ' + ref + ' from id\n        ' + baseId;\n    };\n\n    MissingRefError(baseId, ref,\n    message) {\n        this.message = message || MissingRefError.message(baseId, ref);\n        this.missingRef =\n        resolve.url(baseId, ref);\n        this.missingSchema =\n        resolve.normalizeId(resolve.fullPath(this.missingRef));\n    }\n\n    errorSubclass(Subclass) {\n        Subclass.prototype = Object.create(Error.prototype);\n        Subclass.prototype.constructor = Subclass;\n        return

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Subclass;\n\n\n\n// WEBPACK FOOTER //\n// ../~/ajv/lib/compile/error_classes.js", "var json = typeof JSON !==
'undefined' ? JSON : require('jsonify');\n\nmodule.exports = function (obj, opts) {\n  if (!opts) opts = {};\n  if
(typeof opts === 'function') opts = { cmp: opts }; \n  var space = opts.space || '';\n  if (typeof space === 'number')
space = Array(space+1).join(' '); \n  var cycles = (typeof opts.cycles === 'boolean') ? opts.cycles : false;\n  var
replacer = opts.replacer || function(key, value) { return value; }; \n  var cmp = opts.cmp && (function (f) {\n
return function (node) {\n    return
function (a, b) {\n      var aobj = { key: a, value: node[a] }; \n      var bobj = { key: b, value: node[b] }; \n
      return f(aobj, bobj); \n    }; \n  })(opts.cmp); \n  var seen = [];\n  return (function stringify
(parent, key, node, level) {\n    var indent = space ? ('\n' + new Array(level + 1).join(space)) : '';\n    var
colonSeparator = space ? ': ' : ':';\n    if (node && node.toJSON && typeof node.toJSON === 'function') {\n
node = node.toJSON(); \n    } \n    node = replacer.call(parent, key, node); \n    if (node === undefined)
{\n      return;\n    } \n    if (typeof node !== 'object' || node === null) {\n      return json.stringify(node); \n
    } \n    if (isArray(node)) {\n      var out = [];\n      for (var i = 0; i < node.length; i++) {\n        var
item = stringify(node, i, node[i], level+1) || json.stringify(null); \n        out.push(indent + space + item); \n
      } \n      return '[' + out.join(',') + indent + ']'; \n    } \n    else {\n      if (seen.indexOf(node) !== -1) {\n
if (cycles) return json.stringify('__cycle__'); \n      throw new
TypeError('Converting circular structure to JSON'); \n    } \n    else seen.push(node); \n    var keys =
Object.keys(node).sort(cmp && cmp(node)); \n    var out = [];\n    for (var i = 0; i < keys.length; i++) {\n
var key = keys[i]; \n      var value = stringify(node, key, node[key], level+1); \n      if (!value)
continue; \n      var keyValue = json.stringify(key) \n      + colonSeparator \n      + value; \n      ; \n
      out.push(indent + space + keyValue); \n      } \n      seen.splice(seen.indexOf(node), 1); \n      return
'{' + out.join(',') + indent + '}'; \n    } \n  })(
": obj }, ", obj, 0); \n}; \n\nvar isArray = Array.isArray || function (x) {\n  return {}.toString.call(x) === '[object
Array]'; \n}; \n\nvar objectKeys = Object.keys || function (obj) {\n  var has = Object.prototype.hasOwnProperty ||
function () { return true }; \n  var keys = [];\n  for (var key in obj) {\n    if (has.call(obj, key)) keys.push(key); \n
} \n  return keys; \n}; \n\n\n\n// WEBPACK FOOTER //\n// ../~/json-stable-stringify/index.js", "exports.parse =
require('./lib/parse'); \n\nexports.stringify = require('./lib/stringify'); \n\n\n\n// WEBPACK FOOTER //\n//
../~/jsonify/index.js", "var at, // The index of the current character\n  ch, // The current character\n  escapee = {\n
  '\\': '\\',\n  '\\\\': '\\\\',\n  '/': '/',\n  b: '\\b',\n  f: '\\f',\n  n: '\\n',\n  r: '\\r',\n  t: '\\t'\n
},\n  text,\n  error = function (m) {\n    // Call error when something is wrong.\n    throw {\n
      name: 'SyntaxError',\n      message: m,\n      at: at,\n      text: text\n    }; \n  },\n  next
= function (c) {\n    // If a c parameter is provided, verify that it matches the current character.\n    if (c && c
!== ch) {\n      error("Expected \"" + c + "\"" instead of \"" + ch + "\""); \n    } \n    // Get the next
character. When there are no more characters,\n    // return the empty string.\n    ch = text.charAt(at);\n    at += 1;\n    return ch; \n  },\n  number = function () {\n    // Parse a number value.\n    var number,\n
string = '';\n    if (ch === '-') {\n      string = '-';\n      next('-'); \n    } \n    while (ch >= '0'
&& ch <= '9') {\n      string += ch;\n      next(); \n    } \n    if (ch === '.') {\n      string += '.';\n
while (next() && ch >= '0' && ch <= '9') {\n
      string += ch;\n    } \n    } \n    if (ch === 'e' || ch === 'E') {\n      string += ch;\n      next(); \n
if (ch === '-' || ch === '+') {\n      string += ch;\n      next(); \n    } \n    while (ch >= '0'
&& ch <= '9') {\n      string += ch;\n      next(); \n    } \n    } \n    number = +string;\n    if
(!isFinite(number)) {\n      error("Bad number"); \n    } \n    return number; \n  },\n  string = function () {\n
// Parse a string value.\n    var hex,\n        i,\n        string = '',\n        uffff;\n    // When parsing for string values, we must look for \" and \\ characters.\n    if (ch === '\"') {\n      while
(next()) {\n        if (ch === '\\') {\n          next(); \n          return string;\n        } \n        else if (ch ===
'\\\\') {\n          next(); \n          if (ch === 'u') {\n            uffff = 0;\n            for (i = 0; i < 4; i += 1)
{\n              hex = parseInt(next(), 16);\n              if (!isFinite(hex)) {\n                break;\n

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    }\n        uffff = uffff * 16 + hex;\n        }\n        string +=
String.fromCharCode(uffff);\n        } else if (typeof escapee[ch] === 'string') {\n        string +=
escapee[ch];\n        } else {\n        break;\n        }\n        } else {\n        string +=
ch;\n        }\n        }\n        }\n        error(\"Bad string\");\n        },\n\n        white = function () {\n\n// Skip
whitespace.\n\n        while (ch && ch <= ' ') {\n        next();\n        }\n        },\n\n        word = function () {\n\n// true,
false, or
null.\n\n        switch (ch) {\n        case 't':\n        next('t');\n        next('r');\n        next('u');\n        next('e');\n
        return true;\n        case 'f':\n        next('f');\n        next('a');\n        next('l');\n        next('s');\n
next('e');\n        return false;\n        case 'n':\n        next('n');\n        next('u');\n        next('l');\n
next('l');\n        return null;\n        }\n        error(\"Unexpected \"" + ch + "\"");\n        },\n\n        value, // Place holder
for the value function.\n\n        array = function () {\n\n// Parse an array value.\n\n        var array = [];\n\n        if (ch
=== '[') {\n        next('[');\n        white();\n        if (ch === ']') {\n        next(']');\n        return array;\n
// empty array\n        }\n        while (ch) {\n        array.push(value());\n        white();\n        if (ch
===
']') {\n        next(']');\n        return array;\n        }\n        next(',');\n        white();\n
}\n        }\n        error(\"Bad array\");\n        },\n\n        object = function () {\n\n// Parse an object value.\n\n        var
key,\n        object = {};\n\n        if (ch === '{') {\n        next('{');\n        white();\n        if (ch === '}') {\n
next('}');\n        return object; // empty object\n        }\n        while (ch) {\n        key = string();\n
white();\n        next(':');\n        if (Object.hasOwnProperty.call(object, key)) {\n
error('Duplicate key \'' + key + '\");\n        }\n        object[key] = value();\n        white();\n        if
(ch === '}') {\n        next('}');\n        return object;\n        }\n        next(',');\n
white();\n        }\n        }\n        error(\"Bad object\");\n        };,\n\n        value = function () {\n\n// Parse a JSON
value. It could be an object, an array, a string, a number,\n\n// or a word.\n\n        white();\n        switch (ch) {\n        case '{':\n
return object();\n        case '[':\n        return array();\n        case '\"':\n        return string();\n        case '-':\n        return
number();\n        default:\n        return ch >= '0' && ch <= '9' ? number() : word();\n        }\n};,\n\n// Return the json_parse
function. It will have access to all of the above\n\n// functions and variables.\n\nmodule.exports = function (source,
reviver) {\n        var result;\n        \n        text = source;\n        at = 0;\n        ch = ' ';\n        result = value();\n        white();\n        if (ch) {\n
error(\"Syntax error\");\n        }\n\n        // If there is a reviver function, we recursively walk the new structure,\n        //
passing each name/value pair to the reviver function for possible\n        // transformation, starting with a
temporary root object that holds the result\n        // in an empty key. If there is not a reviver function, we simply return
the\n        // result.\n\n        return typeof reviver === 'function' ? (function walk(holder, key) {\n        var k, v, value =
holder[key];\n        if (value && typeof value === 'object') {\n        for (k in value) {\n        if
(Object.prototype.hasOwnProperty.call(value, k)) {\n        v = walk(value, k);\n        if (v !==
undefined) {\n        value[k] = v;\n        } else {\n        delete value[k];\n        }\n
}\n        }\n        }\n        return reviver.call(holder, key, value); } )({"": result}, "") : result;\n};\n\n\n\n//
WEBPACK FOOTER /\n// ../~/jsonify/lib/parse.js", "var cx = /\[\\u0000\\u00ad\\u0600-
\\u0604\\u070f\\u17b4\\u17b5\\u200c-\\u200f\\u2028-\\u202f\\u2060-\\u206f\\ufeff\\ufff0-\\uffff\\]/g,\n        escapable =
/[\[\\]\"'\\\x00-\\\x1f\\\x7f-\\\x9f\\u00ad\\u0600-\\u0604\\u070f\\u17b4\\u17b5\\u200c-\\u200f\\u2028-\\u202f\\u2060-
\\u206f\\ufeff\\ufff0-\\uffff\\]/g,\n        gap,\n        indent,\n        meta = { // table of character substitutions\n        '\\b': '\\\\b',\n        '\\t': '\\\\t',\n        '\\n':
'\\\\n',\n        '\\f': '\\\\f',\n        '\\r': '\\\\r',\n        '\\\"': '\\\\\"',\n        '\\\\': '\\\\\\\\'\n        },\n        rep;\n\nfunction quote(string)
{\n        // If the string contains no control characters, no quote characters, and no\n        // backslash characters, then we
can safely slap some quotes around it.\n        // Otherwise we must also replace the offending characters with safe
escape\n        // sequences.\n        \n        escapable.lastIndex = 0;\n        return escapable.test(string) ? \"'\" +
string.replace(escapable, function (a) {\n        var c = meta[a];\n        return typeof c === 'string' ? c :\n        '\\\\u' +
('0000' + a.charCodeAt(0).toString(16)).slice(-4); }) + \"\": \"'\" + string + \"'\";\n}\n\nfunction
str(key, holder) {\n        // Produce a string from holder[key].\n        var i, // The loop counter.\n        k, // The
member key.\n        v, // The member value.\n        length,\n        mind = gap,\n        partial,\n        value =

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holder[key];\n  \n  // If the value has a toJSON method, call it to obtain a replacement value.\n  if (value &&
typeof value === 'object' &&\n      typeof value.toJSON === 'function') {\n    value = value.toJSON(key);\n  }\n  \n  // If we were called with a replacer function, then call the replacer to\n  // obtain a replacement value.\n  if (typeof rep === 'function') {\n    value = rep.call(holder, key, value);\n  }\n  \n  // What happens next
depends on the value's type.\n  switch (typeof value) {\n    case 'string':\n      return quote(value);\n    \n
case 'number':\n      // JSON numbers must be finite. Encode non-finite numbers as null.\n      return
isFinite(value)
? String(value) : 'null';\n    \n
case 'boolean':\n    case 'null':\n      // If the value is a boolean or null,
convert it to a string. Note:\n      // typeof null does not produce 'null'. The case is included here in\n      // the
remote chance that this gets fixed someday.\n      return String(value);\n    \n
case 'object':\n    if
(!value) return 'null';\n    gap += indent;\n    partial = [];\n    \n    // Array.isArray\n    if
(Object.prototype.toString.apply(value) === '[object Array]') {\n      length = value.length;\n      for (i =
0; i < length; i += 1) {\n        partial[i] = str(i, value) || 'null';\n      }\n      \n      // Join all of
the elements together, separated with commas, and\n      // wrap them in brackets.\n      v = partial.length
=== 0 ? '[]' : gap ?\n
'[\n' + gap + partial.join(',') + '\n' + gap) + '\n' + mind + ']' :\n          '[' + partial.join(',') + '];\n      gap =
mind;\n      return v;\n    }\n    \n    // If the replacer is an array, use it to select the members to
be\n    // stringified.\n    if (rep && typeof rep === 'object') {\n      length = rep.length;\n
for (i = 0; i < length; i += 1) {\n        k = rep[i];\n        if (typeof k === 'string') {\n          v =
str(k, value);\n          if (v) {\n            partial.push(quote(k) + (gap ? ': ' : ':') + v);\n          }\n        }
\n        }\n      }\n    } else {\n      // Otherwise, iterate through all of the keys in the
object.\n      for (k in value) {\n        if (Object.prototype.hasOwnProperty.call(value, k)) {\n          v =
str(k, value);\n          if (v) {\n            partial.push(quote(k) + (gap ? ': ' : ':') + v);\n          }\n        }
\n        }\n      }\n    }\n    \n    // Join all of the member texts together, separated
with commas,\n    // and wrap them in braces.\n    v = partial.length === 0 ? '{}' : gap ?\n        '{\n' + gap +
partial.join(',') + '\n' + mind + '}' :\n          '[' + partial.join(',') + '];\n    gap = mind;\n    return v;\n  }
}\n\nmodule.exports = function (value, replacer, space) {\n  var i;\n  gap = ";\n  indent = ";\n  \n  // If the
space parameter is a number, make an indent string containing that\n  // many spaces.\n  if (typeof space ===
'number') {\n    for (i = 0; i < space; i += 1) {\n      indent += ' ';\n    }\n  }\n  // If the space parameter is a
string, it will be used as the indent string.\n  else\n  if (typeof space === 'string') {\n    indent = space;\n  }\n  \n  // If there is a replacer, it must be a function or an
array.\n  // Otherwise, throw an error.\n  rep = replacer;\n  if (replacer && typeof replacer !== 'function'\n  &&
(typeof replacer !== 'object' || typeof replacer.length !== 'number')) {\n    throw new Error('JSON.stringify');\n  }
\n  // Make a fake root object containing our value under the key of ".\n  // Return the result of stringifying
the value.\n  return str(" {": value});\n};\n\n\n\n// WEBPACK FOOTER //\n\n../jsonify/lib/stringify.js", "use
strict";\nmodule.exports = function generate_validate(it, $keyword, $ruleType) {\n  var out = ";\n  var $async =
it.schema.$async === true;\n  $refKeywords = it.util.schemaHasRulesExcept(it.schema, it.RULES.all, '$ref');\n
$mid = it.self._getId(it.schema);\n  if (it.isTop) {\n    if ($async) {\n      it.async = true;\n      var $es7 = it.opts.async
=== 'es7';\n      it.yieldAwait
= $es7 ? 'await' : 'yield';\n    }\n    out += ' var validate = ';\n    if ($async) {\n      if ($es7) {\n        out += ' (async
function ';\n      } else {\n        if (it.opts.async !== 'co.wrap') {\n          out += 'co.wrap';\n        }\n        out += '(function* ';\n      }
\n    } else {\n      out += '(function ';\n    }\n    out += '(data, dataPath, parentData, parentDataProperty,\n  rootData) {\n  \\use strict\\';\n    if ($mid && (it.opts.sourceCode || it.opts.processCode)) {\n      out += ' ' + (/\\*#\n
sourceURL=' + $mid + ' */' + ');\n    }\n    }\n    if (typeof it.schema === 'boolean' || (!$refKeywords || it.schema.$ref)) {\n
var $keyword = 'false schema';\n    var $lvl = it.level;\n    var $dataLvl = it.dataLevel;\n    var $schema =
it.schema[$keyword];\n    var $schemaPath = it.schemaPath + it.util.getProperty($keyword);\n    var
$errorSchemaPath = it.errSchemaPath + '/' + $keyword;\n    var $breakOnError = !it.opts.allErrors;\n    var
$errorKeyword;\n    var $data = 'data' +

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($dataLvl || '');\n  var $valid = 'valid' + $lvl;\n  if (it.schema === false) {\n    if (it.isTop) {\n      $breakOnError
= true;\n    } else {\n      out += ' var ' + ($valid) + ' = false; ';\n    }\n    var $$outStack = $$outStack || [];\n
$$outStack.push(out);\n    out = '/* istanbul ignore else */\n    if (it.createErrors !== false) {\n      out += ' {
keyword: \'' + ($errorKeyword || 'false schema') + '\', dataPath: (dataPath || '\') + ' + (it.errorPath) + ',
schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ', params: { }';\n      if (it.opts.messages !== false) {\n
out += ', message: \'boolean schema is false\'';\n      }\n      if (it.opts.verbose) {\n        out += ', schema:
false , parentSchema: validate.schema' + (it.schemaPath) + ', data: ' + ($data) + '';\n      }\n      out += ' }';\n    }
else {\n      out += ' }';\n    }\n    var __err = out;\n    out = $$outStack.pop();\n    if
(!it.compositeRule && $breakOnError) { /* istanbul ignore if */\n      if (it.async) {\n        out += ' throw new
ValidationError([' + (__err) + ']);\n      } else {\n        out += ' validate.errors = [' + (__err) + ']; return false; '\n
      }\n    } else {\n      out += ' var err = ' + (__err) + '; if (vErrors === null) vErrors = [err]; else vErrors.push(err);
errors++;';\n    }\n  } else {\n    if (it.isTop) {\n      if ($async) {\n        out += ' return data;';\n      } else {\n
out += ' validate.errors = null; return true;';\n      }\n    } else {\n      out += ' var ' + ($valid) + ' = true;';\n
    }\n  }\n  if (it.isTop) {\n    out += ' }; return validate;';\n  }\n  return out;\n}\n if (it.isTop) {\n  var $stop =
it.isTop,\n  $lvl = it.level = 0,\n  $dataLvl = it.dataLevel = 0,\n  $data = 'data';\n  it.rootId =
it.resolve.fullPath(it.self._getId(it.root.schema));\n  it.baseId = it.baseId || it.rootId;\n
delete it.isTop;\n  it.dataPathArr = [undefined];\n  out += ' var vErrors = null;';\n  out += ' var errors = 0;
';\n  out += ' if (rootData === undefined) rootData = data;';\n  } else {\n    var $lvl = it.level,\n    $dataLvl =
it.dataLevel,\n    $data = 'data' + ($dataLvl || '');\n    if ($id) it.baseId = it.resolve.url(it.baseId, $id);\n    if ($async
&& !it.async) throw new Error('async schema in sync schema');\n    out += ' var errs_' + ($lvl) + ' = errors;';\n  }\n  var
$valid = 'valid' + $lvl,\n  $breakOnError = !it.opts.allErrors,\n  $closingBraces1 = ",\n  $closingBraces2 =
";\n  var $errorKeyword;\n  var $typeSchema = it.schema.type,\n  $typeIsArray = Array.isArray($typeSchema);\n  if ($typeIsArray && $typeSchema.length == 1) {\n    $typeSchema = $typeSchema[0];\n    $typeIsArray = false;\n
  }\n  if (it.schema.$ref && $refKeywords) {\n    if (it.opts.extendRefs == 'fail') {\n      throw new Error('$ref:
validation keywords used in schema
at path \'' + it.errSchemaPath + '\'' (see option extendRefs));\n    } else if (it.opts.extendRefs !== true) {\n
      $refKeywords = false;\n      console.warn('$ref: keywords ignored in schema at path \'' + it.errSchemaPath + '\');\n
    }\n  }\n  if ($typeSchema) {\n    if (it.opts.coerceTypes) {\n      var $coerceToTypes =
it.util.coerceToTypes(it.opts.coerceTypes, $typeSchema);\n    }\n    var $rulesGroup =
it.RULES.types[$typeSchema];\n    if ($coerceToTypes || $typeIsArray || $rulesGroup === true || ($rulesGroup &&
!$shouldUseGroup($rulesGroup))) {\n      var $schemaPath = it.schemaPath + '.type',\n      $errSchemaPath =
it.errSchemaPath + '/type';\n      var $schemaPath = it.schemaPath + '.type',\n      $errSchemaPath =
it.errSchemaPath + '/type',\n      $method = $typeIsArray ? 'checkDataTypes' : 'checkDataType';\n      out += ' if (' +
(it.util[$method]($typeSchema, $data, true)) + ') {\n        if ($coerceToTypes) {\n          var $dataType = 'dataType' +
$lvl,\n
          $coerced = 'coerced' + $lvl;\n          out += ' var ' + ($dataType) + ' = typeof ' + ($data) + ';\n          if
(it.opts.coerceTypes == 'array') {\n            out += ' if (' + ($dataType) + ' == \'object\' && Array.isArray(' + ($data)
+ ')) ' + ($dataType) + ' = \'array\'';\n          }\n          out += ' var ' + ($coerced) + ' = undefined;';\n          var
$bracesCoercion = ";\n          var arr1 = $coerceToTypes;\n          if (arr1) {\n            var $type, $i = -1,\n            $l1 =
arr1.length - 1;\n            while ($i < $l1) {\n              $type = arr1[$i += 1];\n              if ($i) {\n                out += ' if (' +
($coerced) + ' === undefined) {\n                  $bracesCoercion += ';\n                }\n                if (it.opts.coerceTypes ==
'array' && $type != 'array') {\n                  out += ' if (' + ($dataType) + ' == \'array\' && ' + ($data) + '.length == 1) ' +
($coerced) + ' = ' + ($data) + ' + ' + ($data) + '[0]; ' + ($dataType) + ' = typeof ' + ($data) + ';\n                }\n
                }\n                if ($type == 'string') {\n                  out += ' if (' + ($dataType) + ' == \'number\' || ' + ($dataType) + '
== \'boolean\') ' + ($coerced) + ' = \'' + ($data) + ';\n                } else if (' + ($data) + ' === null) ' + ($coerced) + ' = \'' + ($data) + ';\n
                }\n                } else if ($type == 'number' || $type == 'integer') {\n                  out += ' if (' + ($dataType) + ' == \'boolean\' || ' +
($data) + ' === null || (' + ($dataType) + ' == \'string\' && ' + ($data) + ' && ' + ($data) + ' == ' + ($data) + ');'\n
                }\n                if ($type == 'integer') {\n                  out += ' && !(' + ($data) + ' % 1)';\n                }\n                out += ') ' +

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($coerced) + ' = ' + ($data) + ' '; \n      } else if ($type == 'boolean') { \n          out += ' if (' + ($data) + ' ===
\\false\\' || ' + ($data) + ' === 0 || ' + ($data) + ' === null) ' + ($coerced) + ' = false; else if (' + ($data) + ' === \\true\\'
|| ' + ($data) + ' === 1) ' + ($coerced) + ' = true; '; \n
      } else if ($type == 'null') { \n          out += ' if (' + ($data) + ' === \\'' || ' + ($data) + ' === 0 || ' + ($data) +
' === false) ' + ($coerced) + ' = null; '; \n      } else if (it.opts.coerceTypes == 'array' && $type == 'array') { \n
      out += ' if (' + ($dataType) + ' == \\string\\' || ' + ($dataType) + ' == \\number\\' || ' + ($dataType) + ' == \\boolean\\'
|| ' + ($data) + ' == null) ' + ($coerced) + ' = [' + ($data) + ']; '; \n      } \n      } \n      } \n      out += ' +
($bracesCoercion) + ' if (' + ($coerced) + ' === undefined) { '; \n      var $$outStack = $$outStack || []; \n
      $$outStack.push(out); \n      out = "; /* istanbul ignore else */ \n      if (it.createErrors !== false) { \n      out += ' {
keyword: \'' + ($errorKeyword || 'type') + '\', dataPath: (dataPath || '\\') + ' + (it.errorPath) + ', schemaPath: ' +
(it.util.toQuotedString($errSchemaPath)) + ', params: { type: \''; \n      if ($typeIsArray)
      { \n      out += " + ($typeSchema.join("\\",")); \n      } else { \n      out += " + ($typeSchema); \n      } \n
      out += '\\ } '; \n      if (it.opts.messages !== false) { \n      out += ', message: \\should be '; \n      if
($typeIsArray) { \n      out += " + ($typeSchema.join("\\",")); \n      } else { \n      out += " +
($typeSchema); \n      } \n      out += '\\ '; \n      } \n      if (it.opts.verbose) { \n      out += ', schema:
validate.schema' + ($schemaPath) + ', parentSchema: validate.schema' + (it.schemaPath) + ', data: ' + ($data) + ' '; \n
      } \n      out += ' } '; \n      } else { \n      out += ' { '; \n      } \n      var __err = out; \n      out =
      $$outStack.pop(); \n      if (!it.compositeRule && $breakOnError) { /* istanbul ignore if */ \n      if (it.async) { \n
      out += ' throw new ValidationError([' + (__err) + ']); '; \n      } else { \n
      out += ' validate.errors = [' + (__err) + ']; return false; '; \n      } \n      } else { \n      out += ' var err = ' +
(__err) + ' '; \n      if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++; '; \n      } \n      out += ' } else {
'; \n      var $parentData = $dataLvl ? 'data' + (($dataLvl - 1) || '') : 'parentData', \n      $parentDataProperty =
      $dataLvl ? it.dataPathArr[$dataLvl] : 'parentDataProperty'; \n      out += ' ' + ($data) + ' = ' + ($coerced) + ' '; \n
      if (!$dataLvl) { \n      out += ' if (' + ($parentData) + ' !== undefined); '; \n      } \n      out += ' ' + ($parentData) + '['
+ ($parentDataProperty) + ' ] = ' + ($coerced) + ' '; \n      } \n      } else { \n      var $$outStack = $$outStack || []; \n
      $$outStack.push(out); \n      out = "; /* istanbul ignore else */ \n      if (it.createErrors !== false) { \n      out += ' {
keyword: \'' + ($errorKeyword || 'type') + '\', dataPath: (dataPath || '\\') + ' + (it.errorPath)
+ ', schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ', params: { type: \''; \n      if ($typeIsArray) { \n
      out += " + ($typeSchema.join("\\",")); \n      } else { \n      out += " + ($typeSchema); \n      } \n      out
+= '\\ } '; \n      if (it.opts.messages !== false) { \n      out += ', message: \\should be '; \n      if
($typeIsArray) { \n      out += " + ($typeSchema.join("\\",")); \n      } else { \n      out += " +
($typeSchema); \n      } \n      out += '\\ '; \n      } \n      if (it.opts.verbose) { \n      out += ', schema:
validate.schema' + ($schemaPath) + ', parentSchema: validate.schema' + (it.schemaPath) + ', data: ' + ($data) + ' '; \n
      } \n      out += ' } '; \n      } else { \n      out += ' { '; \n      } \n      var __err = out; \n      out =
      $$outStack.pop(); \n      if (!it.compositeRule && $breakOnError) { /* istanbul ignore if */ \n
      if (it.async) { \n      out += ' throw new ValidationError([' + (__err) + ']); '; \n      } else { \n
      validate.errors = [' + (__err) + ']; return false; '; \n      } \n      } else { \n      out += ' var err = ' + (__err) + ' '; \n
      if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++; '; \n      } \n      } \n      out += ' } '; \n      } \n      } \n      if (it.schema.$ref && !$refKeywords) { \n      out += ' ' + (it.RULES.all.$ref.code(it, '$ref')) + ' '; \n      if ($breakOnError)
      { \n      out += ' } if (errors === '; \n      if ($stop) { \n      out += '0'; \n      } else { \n      out += 'errs_' + ($lvl); \n      } \n
      out += ') { '; \n      $closingBraces2 += ' '; \n      } \n      } else { \n      if (it.opts.v5 && it.schema.patternGroups) { \n
      console.warn('keyword \\patternGroups\\ is deprecated and disabled. Use option patternGroups: true to enable. '); \n
      } \n      var arr2 = it.RULES; \n      if (arr2) { \n      var $rulesGroup, i2 = -1, \n      l2 =
      arr2.length - 1; \n      while (i2 < l2) { \n      $rulesGroup = arr2[i2 += 1]; \n      if ($shouldUseGroup($rulesGroup))
      { \n      if ($rulesGroup.type) { \n      out += ' if (' + (it.util.checkDataType($rulesGroup.type, $data)) + ') { '; \n
      } \n      if (it.opts.useDefaults && !it.compositeRule) { \n      if ($rulesGroup.type == 'object' &&
it.schema.properties) { \n      var $schema = it.schema.properties, \n      $schemaKeys =
      Object.keys($schema); \n      var arr3 = $schemaKeys; \n      if (arr3) { \n      var $propertyKey, i3 = -

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$ruleImplementsSomeKeyword($rule) {\n  var impl = $rule.implements;\n  for (var i = 0; i < impl.length; i++)\n  if (it.schema[impl[i]] !== undefined) return true;\n } \n return out;\n}\n\n\n\n// WEBPACK FOOTER /\n//
../~/.ajv/lib/dotjs/validate.js", "\n/**\n * slice() reference.\n */\n\nvar slice = Array.prototype.slice;\n\n/**\n * Expose
`co`.\n */\n\nmodule.exports = co['default'] = co.co = co;\n\n/**\n * Wrap the given generator `fn` into a\n *
function that returns a promise.\n * This is a separate function so that\n * every `co()` call doesn't create a new,\n *
unnecessary closure.\n */\n * @param {GeneratorFunction} fn\n * @return {Function}\n * @api public\n
*\n\nco.wrap = function (fn) {\n  createPromise.__generatorFunction__ = fn;\n  return createPromise;\n  function
createPromise() {\n    return co.call(this, fn.apply(this, arguments));\n  }\n};\n\n/**\n * Execute the generator
function or a generator\n * and return a promise.\n */\n * @param {Function} fn\n * @return {Promise}\n * @api
public\n *\n\nfunction co(gen) {\n  var ctx = this;\n  var args = slice.call(arguments, 1)\n\n  // we wrap everything in
a promise to avoid promise chaining,\n  // which leads to memory leak errors.\n  // see
https://github.com/tj/co/issues/180\n  return new Promise(function(resolve, reject) {\n    if (typeof gen ===
'function') gen = gen.apply(ctx, args);\n    if (!gen || typeof gen.next !== 'function') return resolve(gen);\n\n
onFulfilled();\n\n    /**\n     * @param {Mixed} res\n     * @return {Promise}\n     * @api private\n     */\n\n
function
onFulfilled(res) {\n    var ret;\n    try {\n      ret = gen.next(res);\n    } catch (e) {\n      return reject(e);\n    }
\n    next(ret);\n  }\n\n  /**\n   * @param {Error} err\n   * @return {Promise}\n   * @api private\n   */\n\n
function onRejected(err) {\n    var ret;\n    try {\n      ret = gen.throw(err);\n    } catch (e) {\n      return
reject(e);\n    }
\n    next(ret);\n  }\n\n  /**\n   * Get the next value in the generator,\n   * return a promise.\n
*/\n * @param {Object} ret\n * @return {Promise}\n * @api private\n */\n\n  function next(ret) {\n    if
(ret.done) return resolve(ret.value);\n    var value = toPromise.call(ctx, ret.value);\n    if (value &&
isPromise(value)) return value.then(onFulfilled, onRejected);\n    return onRejected(new TypeError('You may only
yield a function, promise, generator, array, or object, '\n    + 'but the following object was passed: \'' +
String(ret.value) + '\')));\n
  }\n });\n}\n\n/**\n * Convert a `yield`ed value into a promise.\n */\n * @param {Mixed} obj\n * @return
{Promise}\n * @api private\n */\n\nfunction toPromise(obj) {\n  if (!obj) return obj;\n  if (isPromise(obj)) return
obj;\n  if (isGeneratorFunction(obj) || isGenerator(obj)) return co.call(this, obj);\n  if ('function' === typeof obj) return
thunkToPromise.call(this, obj);\n  if (Array.isArray(obj)) return arrayToPromise.call(this, obj);\n  if (isObject(obj))
return objectToPromise.call(this, obj);\n  return obj;\n}\n\n/**\n * Convert a thunk to a promise.\n */\n * @param
{Function}\n * @return {Promise}\n * @api private\n */\n\nfunction thunkToPromise(fn) {\n  var ctx = this;\n
return new Promise(function (resolve, reject) {\n    fn.call(ctx, function (err, res) {\n      if (err) return reject(err);\n
if (arguments.length > 2) res = slice.call(arguments, 1);\n      resolve(res);\n    });\n  });\n}\n\n/**\n * Convert an
array of `yieldables` to a promise.\n * Uses `Promise.all()`
internally.\n */\n * @param {Array} obj\n * @return {Promise}\n * @api private\n */\n\nfunction
arrayToPromise(obj) {\n  return Promise.all(obj.map(toPromise, this));\n}\n\n/**\n * Convert an object of
`yieldables` to a promise.\n * Uses `Promise.all()`
internally.\n */\n * @param {Object} obj\n * @return
{Promise}\n * @api private\n */\n\nfunction objectToPromise(obj) {\n  var results = new obj.constructor();\n  var
keys = Object.keys(obj);\n  var promises = [];\n  for (var i = 0; i < keys.length; i++) {\n    var key = keys[i];\n    var
promise = toPromise.call(this, obj[key]);\n    if (promise && isPromise(promise)) defer(promise, key);\n    else
results[key] = obj[key];\n  }\n  return Promise.all(promises).then(function () {\n    return results;\n  });\n\n  function
defer(promise, key) {\n    // predefine the key in the result\n    results[key] = undefined;\n
promises.push(promise.then(function (res) {\n      results[key] = res;\n    }));\n  }\n}\n\n/**\n * Check if
`obj` is a promise.\n */\n * @param {Object} obj\n * @return {Boolean}\n * @api private\n */\n\nfunction
isPromise(obj) {\n  return 'function' === typeof obj.then;\n}\n\n/**\n * Check if `obj` is a generator.\n */\n * @param
{Mixed} obj\n * @return {Boolean}\n * @api private\n */\n\nfunction isGenerator(obj) {\n  return 'function' ===
typeof obj.next && 'function' === typeof obj.throw;\n}\n\n/**\n * Check if `obj` is a generator function.\n */\n *
@param {Mixed} obj\n * @return {Boolean}\n * @api private\n */\n\nfunction isGeneratorFunction(obj) {\n  var
constructor = obj.constructor;\n  if (!constructor) return false;\n  if ('GeneratorFunction' === constructor.name ||

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\\u2027\\u202A-\\u202E\\u2030-\\u205E\\u2060-\\u2FFF\\u3001-\\uD7FF\\uE000-\\uFEFE\\uFFF0-
\\uFFFF][\\uD800-\\uDBFF][\\uDC00-\\uDFFF][\\uD800-\\uDBFF](?!\\uDC00-\\uDFFF)(?:[\\uD800-
\\uDBFF]^)(\\uDC00-\\uDFFF)*)?@)?(?:!10(?:\\.0-9]{1,3}){3})(?!127(?:\\.0-9]{1,3}){3})(?!169\\.254(?:\\.0-
9]{1,3}){2})(?!192\\.168(?:\\.0-9]{1,3}){2})(?!172\\.?(?:[1-9][2-9]{2}[01])(?:\\.0-9]{1,3}){2})(?:[1-9][0-9]?[1[0-
9][0-9]2[01][0-9]22[0-3])(?:\\.?(?:1?0-9]{1,2}2[0-4][0-9]25[0-5])){2}(?:\\.?(?:[1-9][0-9]?[1[0-9][0-9]2[0-4][0-
9]25[0-4]))(?:(?:[0-9KsA-z\\xA1-\\uD7FF\\uE000-\\uFFFF][\\uD800-\\uDBFF](?!\\uDC00-
\\uDFFF)(?:[\\uD800-\\uDBFF]^)(\\uDC00-\\uDFFF)+-?)*(?:[0-9KsA-z\\xA1-\\uD7FF\\uE000-
\\uFFFF][\\uD800-\\uDBFF](?!\\uDC00-\\uDFFF)(?:[\\uD800-\\uDBFF]^)(\\uDC00-\\uDFFF)+)(?:\\.?(?:[0-
9KsA-z\\xA1-\\uD7FF\\uE000-\\uFFFF][\\uD800-\\uDBFF](?!\\uDC00-\\uDFFF)(?:[\\uD800-
\\uDBFF]^)(\\uDC00-\\uDFFF)+-?)*(?:[0-9KsA-z\\xA1-\\uD7FF\\uE000-\\uFFFF][\\uD800-
\\uDBFF](?!\\uDC00-\\uDFFF)(?:[\\uD800-\\uDBFF]^)(\\uDC00-\\uDFFF)+)*(?:\\.?(?:[KsA-z\\xA1-
\\uD7FF\\uE000-\\uFFFF][\\uD800-\\uDBFF](?!\\uDC00-\\uDFFF)(?:[\\uD800-\\uDBFF]^)(\\uDC00-
\\uDFFF){2,})))(?:[0-9]{2,5})(?:\\/(?:[\\0-\\x08\\x0E-\\x1F-\\x9F\\xA1-\\u167F\\u1681-\\u1FFF\\u200B-
\\u2027\\u202A-\\u202E\\u2030-\\u205E\\u2060-\\u2FFF\\u3001-\\uD7FF\\uE000-\\uFEFE\\uFFF0-
\\uFFFF][\\uD800-\\uDBFF][\\uDC00-\\uDFFF][\\uD800-\\uDBFF](?!\\uDC00-\\uDFFF)(?:[\\uD800-
\\uDBFF]^)(\\uDC00-\\uDFFF)*)?$/i;\\nvar
  UUID = /^(?:urn:uuid:)?[0-9a-f]{8}-(?:[0-9a-f]{4}-){3}[0-9a-f]{12}$/i;\\nvar JSON_POINTER =
  /^(?:\\/(?:[\\^~\\/]|~0|~1)*)*$|^#(?:\\/(?:[a-z0-9\\-\\.!&'()*+;,:=@]|%[0-9a-f]{2}|~0|~1)*)*$/i;\\nvar
  RELATIVE_JSON_POINTER = /^(?:0|[1-9][0-9]*)(?:#(?:\\/(?:[\\^~\\/]|~0|~1)*)*$|^#(?:[a-z0-9\\-\\.!&'()*+;,:=@]|%[0-9a-f]{2}|~0|~1)*)*$/i;\\n\\nmodule.exports =
  formats;\\n\\nfunction formats(mode) {\\n  mode = mode === 'full' ? 'full' : 'fast';\\n  return
  util.copy(formats[mode]);\\n}\\n\\nformats.fast = {\\n  // date: http://tools.ietf.org/html/rfc3339#section-5.6\\n  date:
  /^(\\d\\d\\d\\d-[0-1]\\d-[0-3]\\d$|,\\n  // date-time: http://tools.ietf.org/html/rfc3339#section-5.6\\n  time: /^(0-2]\\d:[0-
5]\\d:[0-5]\\d(?:\\.\\d+)?(?:z[+-]\\d\\d:\\d\\d)?$/i,\\n  'date-time': /^(\\d\\d\\d\\d-[0-1]\\d-[0-3]\\d\\d\\d[ts][0-2]\\d:[0-5]\\d:[0-
5]\\d(?:\\.\\d+)?(?:z[+-]\\d\\d:\\d\\d)?$/i,\\n
  // uri: https://github.com/mafintosh/is-my-json-valid/blob/master/formats.js\\n  uri: /^(?:[a-z][a-z0-9+-
.]*)(?:\\|\\|\\|?[^\\s]*$/i,\\n  'uri-reference': /^(?:[a-z][a-z0-9+-.*]?\\|\\|\\|?[^\\s]*$/i,\\n  'uri-template':
  URITEMPLATE,\\n  url: URL,\\n  // email (sources from jsen validator):\\n  //
  http://stackoverflow.com/questions/201323/using-a-regular-expression-to-validate-an-email-address#answer-
8829363\\n  // http://www.w3.org/TR/html5/forms.html#valid-e-mail-address (search for 'willful violation')\\n  email:
  /^[a-z0-9.!#$%&'*/+=?^_`{}~]+@[a-z0-9](?:[a-z0-9-]{0,61}[a-z0-9])?(?:\\.?[a-z0-9](?:[a-z0-9-]{0,61}[a-z0-
9])?)*$/i,\\n  hostname: HOSTNAME,\\n  // optimized https://www.safaribooksonline.com/library/view/regular-
expressions-cookbook/9780596802837/ch07s16.html\\n  ipv4: /^(?:25[0-5]|2[0-4]\\d|01?\\d\\d)?\\.\\.\\.3(?:25[0-
5]|2[0-4]\\d|01?\\d\\d)?\\.\\.\\d(?:25[0-5]|2[0-4]\\d|01?\\d\\d)?$/i,\\n  // optimized http://stackoverflow.com/questions/53497/regular-expression-that-
matches-valid-ipv6-addresses\\n
  ipv6: /^(s*(?:(?:[0-9a-f]{1,4}){7}(?:[0-9a-f]{1,4}:)|)(?:(?:[0-9a-f]{1,4}:){6}(?:[0-9a-f]{1,4}|(?:25[0-5]|2[0-
4]\\d|1\\d\\d|[1-9]?\\d)(?:\\.?(?:25[0-5]|2[0-4]\\d|1\\d\\d|[1-9]?\\d))){3}|:)(?:(?:[0-9a-f]{1,4}){5}(?:(?:[0-9a-
f]{1,4}){1,2})|(?:25[0-5]|2[0-4]\\d|1\\d\\d|[1-9]?\\d)(?:\\.?(?:25[0-5]|2[0-4]\\d|1\\d\\d|[1-9]?\\d))){3}|:)(?:(?:[0-9a-
f]{1,4}){4}(?:(?:[0-9a-f]{1,4}){1,3})|(?:[0-9a-f]{1,4})?:(?:25[0-5]|2[0-4]\\d|1\\d\\d|[1-9]?\\d)(?:\\.?(?:25[0-
5]|2[0-4]\\d|1\\d\\d|[1-9]?\\d))){3}|:)(?:(?:[0-9a-f]{1,4}){3}(?:(?:[0-9a-f]{1,4}){1,4})|(?:[0-9a-
f]{1,4}){0,2}(?:25[0-5]|2[0-4]\\d|1\\d\\d|[1-9]?\\d)(?:\\.?(?:25[0-5]|2[0-4]\\d|1\\d\\d|[1-9]?\\d))){3}|:)(?:(?:[0-9a-
f]{1,4}){2}(?:(?:[0-9a-f]{1,4}){1,5})|(?:[0-9a-f]{1,4}){0,3}(?:25[0-5]|2[0-4]\\d|1\\d\\d|[1-
9]?\\d)(?:\\.?(?:25[0-5]|2[0-4]\\d|1\\d\\d|[1-9]?\\d))){3}|:)(?:(?:[0-9a-f]{1,4}){1}(?:(?:[0-9a-
f]{1,4}){1,6})|(?:[0-9a-f]{1,4}){0,4}(?:25[0-5]|2[0-4]\\d|1\\d\\d|[1-9]?\\d)(?:\\.?(?:25[0-5]|2[0-4]\\d|1\\d\\d|[1-
9]?\\d))){3}|:)(?:(?:[0-9a-f]{1,4}){1,7})|(?:[0-9a-f]{1,4}){0,5}(?:25[0-5]|2[0-4]\\d|1\\d\\d|[1-
9]?\\d)(?:\\.?(?:25[0-5]|2[0-4]\\d|1\\d\\d|[1-9]?\\d))){3}|:)))(?:%+)?$/i;\\n
  regex: regex,\\n  // uuid: http://tools.ietf.org/html/rfc4122\\n  uuid: UUID,\\n  // JSON-pointer:
  https://tools.ietf.org/html/rfc6901\\n  // uri fragment: https://tools.ietf.org/html/rfc3986#appendix-A\\n  'json-pointer':
  JSON_POINTER,\\n  // relative JSON-pointer: http://tools.ietf.org/html/draft-luff-relative-json-pointer-00\\n
```



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RULES.custom = {};\n\n return RULES;\n};\n\n\n\n// WEBPACK FOOTER /\n//
../~/ajv/lib/compile/rules.js","use strict";\n\n/all requires must be explicit because browserify won't work with
dynamic requires\nmodule.exports = {\n  '$ref': require('./dotjs/ref'),\n
  allOf: require('./dotjs/allOf'),\n  anyOf: require('./dotjs/anyOf'),\n  const: require('./dotjs/const'),\n  contains:
require('./dotjs/contains'),\n  dependencies: require('./dotjs/dependencies'),\n  'enum': require('./dotjs/enum'),\n
  format: require('./dotjs/format'),\n  items: require('./dotjs/items'),\n  maximum: require('./dotjs/_limit'),\n
  minimum: require('./dotjs/_limit'),\n  maxItems: require('./dotjs/_limitItems'),\n  minItems:
require('./dotjs/_limitItems'),\n  maxLength: require('./dotjs/_limitLength'),\n  minLength:
require('./dotjs/_limitLength'),\n  maxProperties: require('./dotjs/_limitProperties'),\n  minProperties:
require('./dotjs/_limitProperties'),\n  multipleOf: require('./dotjs/multipleOf'),\n  not: require('./dotjs/not'),\n
  oneOf: require('./dotjs/oneOf'),\n  pattern: require('./dotjs/pattern'),\n  properties: require('./dotjs/properties'),\n
  propertyName: require('./dotjs/propertyName'),\n  required: require('./dotjs/required'),\n
  uniqueItems: require('./dotjs/uniqueItems'),\n  validate: require('./dotjs/validate')\n};\n\n\n\n// WEBPACK
FOOTER /\n// ../~/ajv/lib/compile/_rules.js","use strict";\n\nmodule.exports = function generate_ref(it, $keyword,
  $ruleType) {\n  var out = '';\n  var $lvl = it.level;\n  var $dataLvl = it.dataLevel;\n  var $schema =
it.schema[$keyword];\n  var $errSchemaPath = it.errSchemaPath + '/' + $keyword;\n  var $breakOnError =
!it.opts.allErrors;\n  var $data = 'data' + ($dataLvl || '');\n  var $valid = 'valid' + $lvl;\n  var $async, $refCode;\n  if
($schema == '#' || $schema == '#/') {\n    if (it.isRoot) {\n      $async = it.async;\n      $refCode = 'validate';\n    } else
{\n      $async = it.root.schema.$async === true;\n      $refCode = 'root.refVal[0]';\n    } else {\n      var $refVal =
it.resolveRef(it.baseId, $schema, it.isRoot);\n      if ($refVal === undefined) {\n        var $message =
it.MissingRefError.message(it.baseId, $schema);\n        if (it.opts.missingRefs
=== 'fail') {\n          console.error($message);\n          var $$outStack = $$outStack || [];\n          $$outStack.push(out);\n
          out = '';\n          /* istanbul ignore else */\n          if (it.createErrors !== false) {\n            out += ' { keyword: \'' + ($ref) + '\',\n
            , dataPath: (dataPath || '\') + ' + (it.errorPath) + ',\n            , schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ',\n
            , params: { ref: \'' + (it.util.escapeQuotes($schema)) + '\',\n              if (it.opts.messages !== false) {\n                out += '\n
            , message: \'' + 'can\\' + 't resolve reference ' + (it.util.escapeQuotes($schema)) + '\\'\n              }\n              if
(it.opts.verbose) {\n                out += ',\n              schema: ' + (it.util.toQuotedString($schema)) + ',\n              parentSchema:
validate.schema' + (it.schemaPath) + ',\n              data: ' + ($data) + ';\n              }\n              out += ' }';\n            } else {\n              out
+= ' }';\n            }\n            var __err = out;\n            out = $$outStack.pop();\n            if (!it.compositeRule
&& $breakOnError) /* istanbul ignore if */\n              if (it.async) {\n                out += ' throw new\n              ValidationError([' +
(__err) + ']);\n            } else {\n              out += ' validate.errors = [' + (__err) + '];\n              return false;\n            }\n          } else {\n
            out += ' var err = ' + (__err) + ';\n            if (vErrors === null) vErrors = [err];\n            else vErrors.push(err);\n            errors++;\n            }\n            if ($breakOnError) {\n              out += ' if (false) {\n            }\n            } else if (it.opts.missingRefs == 'ignore')
{\n              console.warn($message);\n              if ($breakOnError) {\n                out += ' if (true) {\n            }\n            } else {\n
              throw new it.MissingRefError(it.baseId, $schema, $message);\n            }\n            } else if ($refVal.inline) {\n              var $it =
it.util.copy(it);\n              $it.level++;\n              var $nextValid = 'valid' + $it.level;\n              $it.schema = $refVal.schema;\n              $it.schemaPath = '';\n              $it.errSchemaPath = $schema;\n              var $code =
it.validate($it).replace(/validate\\\.schema/g,\n              $refVal.code);\n              out += ' ' + ($code) + ';\n              if ($breakOnError) {\n                out += ' if (' + ($nextValid) + ') {\n            }\n              } else {\n                $async = $refVal.$async === true;\n                $refCode = $refVal.code;\n              }\n            }\n            if ($refCode) {\n              var $$outStack = $$outStack || [];\n              $$outStack.push(out);\n              out = '';\n              if (it.opts.passContext) {\n                out += ' ' + ($refCode) + '.call(this, '\n              } else {\n                out += ' ' + ($refCode) + '(\n              }\n              out += ' ' + ($data) + ', (dataPath\n              || '\');\n              if (it.errorPath != '\') {\n                out += ' ' + (it.errorPath);\n              }\n              var $parentData = $dataLvl ? 'data' + (($dataLvl - 1) || '') : 'parentData',\n                $parentDataProperty = $dataLvl ? it.dataPathArr[$dataLvl] :
'parentDataProperty';\n              out += ' , ' + ($parentData) + ' , ' + ($parentDataProperty) + ' , rootData) '\n              var
__callValidate = out;\n              out = $$outStack.pop();\n              if ($async) {\n                if
(!it.async) throw new Error('async schema referenced by sync schema');\n                if ($breakOnError) {\n                  out += '\n
              var ' + ($valid) + ';\n              }\n              out += ' try { ' + (it.yieldAwait) + ' ' + (__callValidate) + ';\n              if

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($breakOnError) {\n      out += ' + ($valid) + ' = true; '; \n      } \n      out += ' } catch (e) { if (!(e instanceof
ValidationError)) throw e; if (vErrors === null) vErrors = e.errors; else vErrors = vErrors.concat(e.errors); errors =
vErrors.length; '; \n      if ($breakOnError) {\n      out += ' + ($valid) + ' = false; '; \n      } \n      out += ' }'; \n      if
($breakOnError) {\n      out += ' if ( + ($valid) + ' ) { '; \n      } \n      } else {\n      out += ' if ( ! + (__callValidate) + '
) { if (vErrors === null) vErrors = ' + ($refCode) + '.errors; else vErrors = vErrors.concat( + ($refCode) + '.errors);
errors = vErrors.length; }'; \n      if ($breakOnError) {\n      out += ' else {'; \n      } \n      } \n      } \n      return
out; \n } \n \n \n \n // WEBPACK
FOOTER /\n// ../~/ajv/lib/dotjs/ref.js", "use strict"; \n module.exports = function generate_allOf(it, $keyword,
$ruleType) {\n      var out = ' '; \n      var $schema = it.schema[$keyword]; \n      var $schemaPath = it.schemaPath +
it.util.getProperty($keyword); \n      var $errSchemaPath = it.errSchemaPath + '/' + $keyword; \n      var $breakOnError =
!it.opts.allErrors; \n      var $it = it.util.copy(it); \n      var $closingBraces = "; \n      $it.level++; \n      var $nextValid = 'valid' +
$it.level; \n      var $currentBaseId = $it.baseId, \n      $allSchemasEmpty = true; \n      var arr1 = $schema; \n      if (arr1) {\n      var $sch, $i = -1, \n      l1 = arr1.length - 1; \n      while ($i < l1) {\n      $sch = arr1[$i += 1]; \n      if
(it.util.schemaHasRules($sch, it.RULES.all)) {\n      $allSchemasEmpty = false; \n      $it.schema = $sch; \n      $it.schemaPath = $schemaPath + '[' + $i + ']; \n      $it.errSchemaPath = $errSchemaPath + '/' + $i; \n      out += ' '
+ (it.validate($it)) + ' '; \n      $it.baseId = $currentBaseId; \n      if ($breakOnError) {\n      out += ' if ( + ($nextValid) + ' ) {'; \n      $closingBraces += '}; \n      } \n      } \n      } \n      if ($breakOnError) {\n      if ($allSchemasEmpty) {\n      out += ' if (true) {'; \n      } else {\n      out += ' ' +
($closingBraces.slice(0, -1)) + ' '; \n      } \n      } \n      out = it.util.cleanUpCode(out); \n      return out; \n } \n \n \n \n // WEBPACK
FOOTER /\n// ../~/ajv/lib/dotjs/allOf.js", "use strict"; \n module.exports = function generate_anyOf(it, $keyword,
$ruleType) {\n      var out = ' '; \n      var $lvl = it.level; \n      var $dataLvl = it.dataLevel; \n      var $schema =
it.schema[$keyword]; \n      var $schemaPath = it.schemaPath + it.util.getProperty($keyword); \n      var $errSchemaPath =
it.errSchemaPath + '/' + $keyword; \n      var $breakOnError = !it.opts.allErrors; \n      var $data = 'data' + ($dataLvl || ''); \n      var $valid = 'valid' + $lvl; \n      var $errs = 'errs_' + $lvl; \n      var $it = it.util.copy(it); \n      var $closingBraces = "; \n      $it.level++; \n      var $nextValid = 'valid'
+ $it.level; \n      var $noEmptySchema = $schema.every(function($sch) {\n      return it.util.schemaHasRules($sch,
it.RULES.all); \n      }); \n      if ($noEmptySchema) {\n      var $currentBaseId = $it.baseId; \n      out += ' var ' + ($errs) + ' =
errors; var ' + ($valid) + ' = false; '; \n      var $wasComposite = it.compositeRule; \n      it.compositeRule =
$it.compositeRule = true; \n      var arr1 = $schema; \n      if (arr1) {\n      var $sch, $i = -1, \n      l1 = arr1.length - 1; \n      while ($i < l1) {\n      $sch = arr1[$i += 1]; \n      $it.schema = $sch; \n      $it.schemaPath = $schemaPath + '[' +
$i + ']; \n      $it.errSchemaPath = $errSchemaPath + '/' + $i; \n      out += ' ' + (it.validate($it)) + ' '; \n      $it.baseId = $currentBaseId; \n      out += ' ' + ($valid) + ' = ' + ($valid) + ' || ' + ($nextValid) + ' '; \n      if ( ! + ($valid) + '
) {'; \n      $closingBraces += '}; \n      } \n      } \n      it.compositeRule = $it.compositeRule = $wasComposite; \n      out
+= ' ' + ($closingBraces)
+ ' if ( ! + ($valid) + ' ) { var err = ' ; /* istanbul ignore else */ \n      if (it.createErrors !== false) {\n      out += ' {
keyword: \'' + ('anyOf') + '\', dataPath: (dataPath || \'' + (it.errorPath) + '\', schemaPath: ' +
(it.util.toQuotedString($errSchemaPath)) + '\', params: { }'; \n      if (it.opts.messages !== false) {\n      out += ' ,
message: \'' + 'should match some schema in anyOf' + '\'; \n      } \n      if (it.opts.verbose) {\n      out += ' , schema:
validate.schema' + ($schemaPath) + '\', parentSchema: validate.schema' + (it.schemaPath) + '\', data: ' + ($data) + ' '; \n      } \n      out += ' }'; \n      } else {\n      out += ' { }'; \n      } \n      out += ' '; \n      if (vErrors === null) vErrors = [err]; else
vErrors.push(err); errors++; \n      if (!it.compositeRule && $breakOnError) { /* istanbul ignore if */ \n      if
(it.async) {\n      out += ' throw new ValidationError(vErrors);'; \n      } else {\n      out += ' validate.errors =
vErrors; return false;'; \n      } \n      } \n      } \n      } \n      out += ' } else { errors = ' + ($errs) + ' ; if (vErrors !== null) { if ( + ($errs) + ' ) vErrors.length = ' +
($errs) + ' ; else vErrors = null; }'; \n      if (it.opts.allErrors) {\n      out += ' }'; \n      } \n      out =
it.util.cleanUpCode(out); \n      } else {\n      if ($breakOnError) {\n      out += ' if (true) {'; \n      } \n      } \n      } \n      return
out; \n } \n \n \n \n // WEBPACK FOOTER /\n// ../~/ajv/lib/dotjs/anyOf.js", "use strict"; \n module.exports = function
generate_const(it, $keyword, $ruleType) {\n      var out = ' '; \n      var $lvl = it.level; \n      var $dataLvl = it.dataLevel; \n      var

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$schema = it.schema[$keyword];\n var $schemaPath = it.schemaPath + it.util.getProperty($keyword);\n var
$errSchemaPath = it.errSchemaPath + '/' + $keyword;\n var $breakOnError = !it.opts.allErrors;\n var $data = 'data'
+ ($dataLvl || '');\n var $valid = 'valid' + $lvl;\n var $isData = it.opts.$data && $schema && $schema.$data,\n $schemaValue;\n if ($isData) {\n   out += ' var schema' + ($lvl) + ' = ' +
(it.util.getData($schema.$data, $dataLvl, it.dataPathArr)) + ';\n   $schemaValue = 'schema' + $lvl;\n } else {\n
$schemaValue = $schema;\n }\n if (!$isData) {\n   out += ' var schema' + ($lvl) + ' = validate.schema' +
($schemaPath) + ';\n }\n   out += ' var ' + ($valid) + ' = equal(' + ($data) + ', schema' + ($lvl) + '); if (!' + ($valid) + ')
{\n   var $$outStack = $$outStack || [];\n   $$outStack.push(out);\n   out = "/* istanbul ignore else */\n   if
(it.createErrors !== false) {\n     out += ' { keyword: \'' + ('const') + '\', dataPath: (dataPath || \'\') + ' + (it.errorPath)
+ ', schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ', params: { } ';\n     if (it.opts.messages !== false)
{\n       out += ', message: \'' + 'should be equal to constant' + '\';\n     }\n     if (it.opts.verbose) {\n       out += ', schema:
validate.schema' + ($schemaPath) + ', parentSchema: validate.schema' + (it.schemaPath) + ', data: ' + ($data) + ' ';\n     }\n
   }\n   out += ' } ';\n
}\n   } else {\n     out += ' { } ';\n   }\n   var __err = out;\n   out = $$outStack.pop();\n   if (!it.compositeRule &&
$breakOnError) { /* istanbul ignore if */\n     if (it.async) {\n       out += ' throw new ValidationError([' + (__err) + ']);\n
     }\n   } else {\n     out += ' validate.errors = [' + (__err) + ']; return false; ';\n   }\n } else {\n   out += ' var err = ' +
(__err) + ';\n   if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++; ';\n }\n   out += ' ';\n   if
($breakOnError) {\n     out += ' else { ';\n   }\n   return out;\n }\n\n\n\n// WEBPACK FOOTER /\n\n//
./~/ajv/lib/dotjs/const.js", "use strict";\nmodule.exports = function generate_contains(it, $keyword, $ruleType) {\n
var out = ' ';\n var $lvl = it.level;\n var $dataLvl = it.dataLevel;\n var $schema = it.schema[$keyword];\n var
$schemaPath = it.schemaPath + it.util.getProperty($keyword);\n var $errSchemaPath = it.errSchemaPath + '/' +
$keyword;\n var $breakOnError = !it.opts.allErrors;\n var $data = 'data'
+ ($dataLvl || '');\n var $valid = 'valid' + $lvl;\n var $errs = 'errs__' + $lvl;\n var $it = it.util.copy(it);\n var
$closingBraces = ";\n $it.level++;\n var $nextValid = 'valid' + $it.level;\n var $idx = 'i' + $lvl,\n $dataNxt =
$it.dataLevel + 1,\n $nextData = 'data' + $dataNxt,\n $currentBaseId = it.baseId,\n
$nonEmptySchema = it.util.schemaHasRules($schema, it.RULES.all);\n   out += ' var ' + ($errs) + ' = errors; var ' +
($valid) + ';\n   if ($nonEmptySchema) {\n     var $wasComposite = it.compositeRule;\n     it.compositeRule =
$it.compositeRule = true;\n     $it.schema = $schema;\n     $it.schemaPath = $schemaPath;\n     $it.errSchemaPath =
$errSchemaPath;\n     out += ' var ' + ($nextValid) + ' = false; for (var ' + ($idx) + ' = 0; ' + ($idx) + ' < ' + ($data) +
'.length; ' + ($idx) + '++) {\n       $it.errorPath = it.util.getPathExpr(it.errorPath, $idx, it.opts.jsonPointers, true);\n
       var $passData = $data + '[' + $idx + '];\n       $it.dataPathArr[$dataNxt]
= $idx;\n       var $code = it.validate($it);\n       $it.baseId = $currentBaseId;\n       if (it.util.varOccurences($code,
$nextData) < 2) {\n         out += ' ' + (it.util.varReplace($code, $nextData, $passData)) + ' ';\n       } else {\n         out += '
var ' + ($nextData) + ' = ' + ($passData) + ';\n       } + ($code) + ' ';\n       }\n       out += ' if (' + ($nextValid) + ') break; } ';\n
     it.compositeRule = $it.compositeRule = $wasComposite;\n     out += ' ' + ($closingBraces) + ' if (!' + ($nextValid) +
') {\n     }\n   } else {\n     out += ' if (' + ($data) + '.length == 0) {\n     }\n     var $$outStack = $$outStack || [];\n
     $$outStack.push(out);\n     out = "/* istanbul ignore else */\n     if (it.createErrors !== false) {\n       out += ' { keyword:
\' + ('contains') + '\', dataPath: (dataPath || \'\') + ' + (it.errorPath) + ', schemaPath: ' +
(it.util.toQuotedString($errSchemaPath)) + ', params: { } ';\n       if (it.opts.messages !== false) {\n         out += ',
message: \'' + 'should contain a valid item' + '\';\n       }\n       if (it.opts.verbose) {\n         out += ', schema: validate.schema' + ($schemaPath) + ', parentSchema:
validate.schema' + (it.schemaPath) + ', data: ' + ($data) + ' ';\n       }\n       out += ' } ';\n     } else {\n       out += ' { } ';\n     }\n
     var __err = out;\n     out = $$outStack.pop();\n     if (!it.compositeRule && $breakOnError) { /* istanbul ignore if */\n
       if (it.async) {\n         out += ' throw new ValidationError([' + (__err) + ']);\n       }\n     } else {\n       out += ' validate.errors =
[' + (__err) + ']; return false; ';\n     }\n   } else {\n     out += ' var err = ' + (__err) + ';\n     if (vErrors === null) vErrors =
[err]; else vErrors.push(err); errors++; ';\n   }\n   out += ' } else { ';\n   if ($nonEmptySchema) {\n     out += ' errors = '
+ ($errs) + ';\n     if (vErrors !== null) {\n       if (' + ($errs) + ') vErrors.length = ' + ($errs) + ';\n       else vErrors = null;\n     }\n   }\n
   if (it.opts.allErrors) {\n     out += ' } ';\n   }\n   out = it.util.cleanUpCode(out);\n   return out;\n }\n\n\n\n// WEBPACK

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FOOTER /\n/ ../~/ajv/lib/dotjs/contains.js","use strict";\nmodule.exports = function generate_dependencies(it,
$keyword, $ruleType) {\n  var out = '';\n  var $lvl = it.level;\n  var $dataLvl = it.dataLevel;\n  var $schema =
it.schema[$keyword];\n  var $schemaPath = it.schemaPath + it.util.getProperty($keyword);\n  var $errSchemaPath =
it.errSchemaPath + '/' + $keyword;\n  var $breakOnError = !it.opts.allErrors;\n  var $data = 'data' + ($dataLvl || '');\n  var $errs = 'errs_' + $lvl;\n  var $it = it.util.copy(it);\n  var $closingBraces = '';\n  var $nextValid =
'valid' + $it.level;\n  var $schemaDeps = {},\n  $propertyDeps = {},\n  $ownProperties = it.opts.ownProperties;\n  for ($property in $schema) {\n    var $sch = $schema[$property];\n    var $deps = Array.isArray($sch) ?
$propertyDeps : $schemaDeps;\n    $deps[$property] = $sch;\n    out += 'var ' + ($errs) + ' = errors;';\n    var
$currentErrorPath = it.errorPath;\n    out += 'var missing' + ($lvl) + ';\n
    for (var $property in $propertyDeps) {\n      $deps = $propertyDeps[$property];\n      if ($deps.length) {\n        out += '
      if (' + ($data) + (it.util.getProperty($property)) + ' !== undefined';\n        if ($ownProperties) {\n          out += ' &&
      Object.prototype.hasOwnProperty.call(' + ($data) + ', \'' + (it.util.escapeQuotes($property)) + '\')';\n        }\n        if
($breakOnError) {\n          out += ' && (';\n          var arr1 = $deps;\n          if (arr1) {\n            var $propertyKey, $i = -
1,\n            i1 = arr1.length - 1;\n            while ($i < i1) {\n              $propertyKey = arr1[$i += 1];\n              if ($i) {\n
                out += ' ||';\n              }\n              var $prop = it.util.getProperty($propertyKey),\n              $useData = $data +
$prop;\n              out += ' ( (' + ($useData) + ' === undefined';\n              if ($ownProperties) {\n                out += ' || !
      Object.prototype.hasOwnProperty.call(' + ($data) + ', \'' + (it.util.escapeQuotes($propertyKey))
      + '\')';\n              }\n              out += ') && (missing' + ($lvl) + ' = ' + (it.util.toQuotedString(it.opts.jsonPointers ?
      $propertyKey : $prop)) + ')';\n              }\n              out += ') {';\n              var $propertyPath = 'missing' + $lvl,\n
              $missingProperty = '\\'' + $propertyPath + '\\'';\n              if (it.opts._errorDataPathProperty) {\n                it.errorPath
      = it.opts.jsonPointers ? it.util.getPathExpr($currentErrorPath, $propertyPath, true) : $currentErrorPath + ' + ' +
      $propertyPath;\n              }\n              var $$outStack = $$outStack || [];\n              $$outStack.push(out);\n              out = '';\n
/* istanbul ignore else */\n              if (it.createErrors !== false) {\n                out += ' { keyword: \'' + ('dependencies') + '\',
      dataPath: (dataPath || \\') + ' + (it.errorPath) + ', schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ',
      params: { property: \'' + (it.util.escapeQuotes($property)) + '\', missingProperty: \'' + ($missingProperty)
      + '\', depsCount: ' + ($deps.length) + ', deps: \'' + (it.util.escapeQuotes($deps.length === 1 ? $deps[0] : $deps.join('\n
      \')))) + '\'}';\n                if (it.opts.messages !== false) {\n                  out += ', message: \\should have';\n                  if
($deps.length === 1) {\n                    out += 'property ' + (it.util.escapeQuotes($deps[0]));\n                  } else {\n                    out
      += 'properties ' + (it.util.escapeQuotes($deps.join('\n', '\')));\n                  }\n                  out += ' when property ' +
      (it.util.escapeQuotes($property)) + ' is present\\'';\n                }\n                if (it.opts.verbose) {\n                  out += ', schema:
      validate.schema' + ($schemaPath) + ', parentSchema: validate.schema' + (it.schemaPath) + ', data: ' + ($data) + '';\n                }\n
                out += ' }';\n              } else {\n                out += ' {';\n              }\n              var __err = out;\n              out =
      $$outStack.pop();\n              if (!it.compositeRule && $breakOnError) { /* istanbul ignore if */\n                if
      (it.async) {\n                  out += ' throw new ValidationError([' + (__err) + ']);';\n                } else {\n                  out += '
      validate.errors = [' + (__err) + ']; return false;';\n                }\n              } else {\n                out += ' var err = ' + (__err) + '; if
      (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++;';\n              }\n              } else {\n                out += ' }';\n
              var arr2 = $deps;\n              if (arr2) {\n                var $propertyKey, i2 = -1,\n                i2 = arr2.length - 1;\n                while (i2 <
      i2) {\n                  $propertyKey = arr2[i2 += 1];\n                  var $prop = it.util.getProperty($propertyKey),\n                  $missingProperty = it.util.escapeQuotes($propertyKey),\n
                  $useData = $data + $prop;\n                  if
      (it.opts._errorDataPathProperty) {\n                    it.errorPath = it.util.getPath($currentErrorPath, $propertyKey,
      it.opts.jsonPointers);\n                  }\n                  out += ' if (' + ($useData) + ' === undefined';\n                  if ($ownProperties)
      {\n                    out += ' || ! Object.prototype.hasOwnProperty.call(' + ($data) + ', \'' +
      (it.util.escapeQuotes($propertyKey)) + '\')';\n                  }\n                  out += ') { var err = ';\n                /* istanbul ignore else */\n
                if (it.createErrors !== false) {\n                  out += ' { keyword: \'' + ('dependencies') + '\', dataPath: (dataPath ||
      \\') + ' + (it.errorPath) + ', schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ', params: { property: \'' +
      (it.util.escapeQuotes($property)) + '\', missingProperty: \'' + ($missingProperty) + '\', depsCount: ' + ($deps.length)
      + ', deps: \'' + (it.util.escapeQuotes($deps.length === 1 ? $deps[0] : $deps.join('\n', '\')))) + '\'}';\n                  if
      (it.opts.messages !== false) {\n                    out += ', message: \\should have';\n                    if ($deps.length === 1) {\n
                      \n

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        out += 'property ' + (it.util.escapeQuotes($deps[0]));\n          } else {\n          out +=
'properties ' + (it.util.escapeQuotes($deps.join('\n\n')));\n          }\n          out += ' when property ' +
(it.util.escapeQuotes($property)) + ' is present'\n          }\n          if (it.opts.verbose) {\n          out += '
schema: validate.schema' + ($schemaPath) + ', parentSchema: validate.schema' + (it.schemaPath) + ', data: ' +
($data) + ';\n          }\n          out += ' }';\n          } else {\n          out += ' { }';\n          }\n          out += '
};\n          if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++; }';\n          }\n          }\n          out += ' }
'\n          if ($breakOnError) {\n          $closingBraces += '};\n          out += ' else {';\n          }\n          }\n          }\n          it.errorPath =
$currentErrorPath;\n          var $currentBaseId = $it.baseId;\n          for (var $property in $schemaDeps) {\n          var $sch =
$schemaDeps[$property];\n          if (it.util.schemaHasRules($sch, it.RULES.all)) {\n          out += ' ' + ($nextValid)
+ ' = true; if ( ' + ($data) + (it.util.getProperty($property)) + ' !== undefined';\n          if ($ownProperties) {\n          out
+= ' && Object.prototype.hasOwnProperty.call( ' + ($data) + ', \'' + (it.util.escapeQuotes($property)) + '\')';\n          }\n          out += ' ) {';\n          $it.schema = $sch;\n          $it.schemaPath = $schemaPath + it.util.getProperty($property);\n          $it.errSchemaPath = $errSchemaPath + '/' + it.util.escapeFragment($property);\n          out += ' ' + (it.validate($it)) +
';\n          $it.baseId = $currentBaseId;\n          out += ' }';\n          if ($breakOnError) {\n          out += ' if ( ' + ($nextValid) +
' ) {';\n          $closingBraces += '};\n          }\n          }\n          }\n          if ($breakOnError) {\n          out += ' ' + ($closingBraces) + ' if (
' + ($errs) + ' == errors) {';\n          }\n          out = it.util.cleanupCode(out);\n          return out;\n          }\n          }\n          }\n          // WEBPACK FOOTER
//\n          // ..~/ajv/lib/dotjs/dependencies.js", "use strict";\n          module.exports = function generate_enum(it, $keyword,
$ruleType)
          {\n          var out = ';\n          var $lvl = it.level;\n          var $dataLvl = it.dataLevel;\n          var $schema = it.schema[$keyword];\n          var
$schemaPath = it.schemaPath + it.util.getProperty($keyword);\n          var $errSchemaPath = it.errSchemaPath + '/' +
$keyword;\n          var $breakOnError = !it.opts.allErrors;\n          var $data = 'data' + ($dataLvl || '');\n          var $valid = 'valid' +
$lvl;\n          var $isData = it.opts.$data && $schema && $schema.$data,\n          $schemaValue;\n          if ($isData) {\n          out +=
' var schema' + ($lvl) + ' = ' + (it.util.getData($schema.$data, $dataLvl, it.dataPathArr)) + ';\n          $schemaValue =
'schema' + $lvl;\n          } else {\n          $schemaValue = $schema;\n          }\n          var $i = 'i' + $lvl,\n          $vSchema = 'schema' +
$lvl;\n          if (!$isData) {\n          out += ' var ' + ($vSchema) + ' = validate.schema' + ($schemaPath) + ';\n          }\n          out += ' var
' + ($valid) + ';\n          if ($isData) {\n          out += ' if (schema' + ($lvl) + ' === undefined) ' + ($valid) + ' = true; else if
(!Array.isArray(schema' + ($lvl) + ')) ' + ($valid)
+ ' = false; else {';\n          }\n          out += ' ' + ($valid) + ' = false; for (var ' + ($i) + ' = 0; ' + ($i) + ' < ' + ($vSchema) + '.length; '
+ ($i) + '++) if (equal(' + ($data) + ', ' + ($vSchema) + '[' + ($i) + '])) { ' + ($valid) + ' = true; break; }';\n          if ($isData)
{\n          out += ' }';\n          }\n          out += ' if (!(' + ($valid) + ')) {';\n          var $$outStack = $$outStack || [];\n          $$outStack.push(out);\n          out = ''; /* istanbul ignore else */\n          if (it.createErrors !== false) {\n          out += ' { keyword:
\'' + ('enum') + '\', dataPath: (dataPath || \'' + (it.errorPath) + '\', schemaPath: ' +
(it.util.toQuotedString($errSchemaPath)) + ', params: { allowedValues: schema' + ($lvl) + ' }';\n          if
(it.opts.messages !== false) {\n          out += ', message: \'' + 'should be equal to one of the allowed values'\n          };\n          }\n          if
(it.opts.verbose) {\n          out += ', schema: validate.schema' + ($schemaPath) + ', parentSchema: validate.schema' +
(it.schemaPath) + ', data: ' + ($data) + ';\n          }\n          out += ' }';\n          } else {\n          out += ' { }';\n          }\n          var __err = out;\n          out = $$outStack.pop();\n          if
(!it.compositeRule && $breakOnError) { /* istanbul ignore if */\n          if (it.async) {\n          out += ' throw new
ValidationError(' + (__err) + ');;\n          } else {\n          out += ' validate.errors = [' + (__err) + ']; return false;';\n          }\n          }
else {\n          out += ' var err = ' + (__err) + ';\n          if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++;\n          };\n          }\n          out += ' }';\n          if ($breakOnError) {\n          out += ' else {';\n          }\n          }\n          }\n          }\n          // WEBPACK
FOOTER //\n          // ..~/ajv/lib/dotjs/enum.js", "use strict";\n          module.exports = function generate_format(it, $keyword,
$ruleType) {\n          var out = ';\n          var $lvl = it.level;\n          var $dataLvl = it.dataLevel;\n          var $schema =
it.schema[$keyword];\n          var $schemaPath = it.schemaPath + it.util.getProperty($keyword);\n          var $errSchemaPath =
it.errSchemaPath + '/' + $keyword;\n          var $breakOnError = !it.opts.allErrors;\n          var $data = 'data' + ($dataLvl || '');\n          if (it.opts.format === false) {\n          if ($breakOnError) {\n          out += ' if (true) {\n          };\n          }\n          return out;\n          }\n          var $isData = it.opts.$data && $schema && $schema.$data,\n          $schemaValue;\n          if ($isData) {\n          out += ' var schema' + ($lvl) + ' = ' + (it.util.getData($schema.$data, $dataLvl, it.dataPathArr)) + ';\n          }

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';\n  $schemaValue = 'schema' + $lvl;\n } else {\n  $schemaValue = $schema;\n }\n var $unknownFormats =
it.opts.unknownFormats,\n $allowUnknown = Array.isArray($unknownFormats);\n if ($isData) {\n  var $format
= 'format' + $lvl,\n  $isObject = 'isObject' + $lvl,\n  $formatType = 'formatType' + $lvl;\n  out += ' var ' +
($format) + ' = formats[' + ($schemaValue) + ']; var ' + ($isObject) + ' = typeof ' + ($format) + ' == \'object\' && !(
($format) + ' instanceof RegExp) && ' + ($format) + '.validate; var ' + ($formatType) + ' = ' + ($isObject) + ' && '
+ ($format) + '.type || \'string\'; if (
+ ($isObject) + ') {\n  if (it.async) {\n  out += ' var async' + ($lvl) + ' = ' + ($format) + '.async;';\n } \n out
+= ' ' + ($format) + ' = ' + ($format) + '.validate; } if ( '\n  if ($isData) {\n  out += ' (' + ($schemaValue) + ') !==
undefined && typeof ' + ($schemaValue) + ' !== \'string\') ||';\n } \n out += ' (';\n  if ($unknownFormats !=
'ignore') {\n  out += ' (' + ($schemaValue) + ') && ' + ($format) + ');\n  if ($allowUnknown) {\n  out += '
&& self._opts.unknownFormats.indexOf(' + ($schemaValue) + ') == -1';\n } \n out += ') ||';\n } \n out += '
(' + ($format) + ' && ' + ($formatType) + ' == \'\' + ($ruleType) + '\') && !(typeof ' + ($format) + ' == \'function\' ?
);\n  if (it.async) {\n  out += ' (async' + ($lvl) + ' ? ' + (it.yieldAwait) + ' ' + ($format) + ' (' + ($data) + ') : ' +
($format) + ' (' + ($data) + '))';\n } else {\n  out += ' ' + ($format) + ' (' + ($data) + ')';\n } \n out += '
: ' + ($format) + '.test(' + ($data) + '))';\n } else {\n  var $format = it.formats[$schema];\n  if (!$format) {\n
if ($unknownFormats == 'ignore') {\n  console.warn('unknown format \'' + $schema + '\' ignored in schema at
path \'' + it.errSchemaPath + '\');\n  if ($breakOnError) {\n  out += ' if (true) {';\n } \n return out;\n
} else if ($allowUnknown && $unknownFormats.indexOf($schema) >= 0) {\n  if ($breakOnError) {\n
out += ' if (true) {';\n } \n return out;\n } else {\n  throw new Error('unknown format \'' + $schema +
\' is used in schema at path \'' + it.errSchemaPath + '\');\n } \n } \n var $isObject = typeof $format == 'object'
&& !($format instanceof RegExp) && $format.validate;\n  var $formatType = $isObject && $format.type ||
'string';\n  if ($isObject) {\n  var $async = $format.async === true;\n  $format = $format.validate;\n } \n if
($formatType != $ruleType)
{\n  if ($breakOnError) {\n  out += ' if (true) {';\n } \n return out;\n } \n if ($async) {\n  if
(it.async) throw new Error('async format in sync schema');\n  var $formatRef = 'formats' +
it.util.getProperty($schema) + '.validate';\n  out += ' if (!( ' + (it.yieldAwait) + ' ' + ($formatRef) + ' (' + ($data) +
')) {';\n } else {\n  out += ' if (!';\n  var $formatRef = 'formats' + it.util.getProperty($schema);\n  if
($isObject) $formatRef += '.validate';\n  if (typeof $format == 'function') {\n  out += ' ' + ($formatRef) + ' (' +
($data) + ')';\n } else {\n  out += ' ' + ($formatRef) + '.test(' + ($data) + ')';\n } \n out += ') {';\n } \n
} \n var $$outStack = $$outStack || [];\n $$outStack.push(out);\n out = "/* istanbul ignore else */\n if
(it.createErrors !== false) {\n  out += ' { keyword: \'' + ('format') + '\', dataPath: (dataPath || '\') + ' +
(it.errorPath) + ', schemaPath:
' + (it.util.toQuotedString($errSchemaPath)) + ', params: { format: ';\n  if ($isData) {\n  out += " +
($schemaValue);\n } else {\n  out += " + (it.util.toQuotedString($schema));\n } \n out += ' }';\n  if
(it.opts.messages !== false) {\n  out += ', message: \'should match format\';\n  if ($isData) {\n  out += '\
' + ($schemaValue) + ' + \';\n } else {\n  out += " + (it.util.escapeQuotes($schema));\n } \n out +=
'\'' + '\';\n } \n if (it.opts.verbose) {\n  out += ', schema: ';\n  if ($isData) {\n  out += 'validate.schema' +
($schemaPath);\n } else {\n  out += " + (it.util.toQuotedString($schema));\n } \n out += '
,
parentSchema: validate.schema' + (it.schemaPath) + ', data: ' + ($data) + ';\n } \n out += ' }';\n } else {\n out
+= ' {}';\n } \n var __err = out;\n out = $$outStack.pop();\n if (!it.compositeRule && $breakOnError) { /*
istanbul ignore
if */\n  if (it.async) {\n  out += ' throw new ValidationError([' + (__err) + ']);';\n } else {\n  out += '
validate.errors = [' + (__err) + ']; return false;';\n } \n } else {\n  out += ' var err = ' + (__err) + '; if (vErrors ===
null) vErrors = [err]; else vErrors.push(err); errors++;';\n } \n out += ' }';\n  if ($breakOnError) {\n  out += ' else {
;\n } \n return out;\n }\n\n\n\n// WEBPACK FOOTER //\n\n../~/.ajv/lib/dotjs/format.js","use strict";\nmodule.exports
= function generate_items(it, $keyword, $ruleType) {\n  var out = ';\n  var $lvl = it.level;\n  var $dataLvl =
it.dataLevel;\n  var $schema = it.schema[$keyword];\n  var $schemaPath = it.schemaPath +
it.util.getProperty($keyword);\n  var $errSchemaPath = it.errSchemaPath + '/' + $keyword;\n  var $breakOnError =

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!it.opts.allErrors;\n var $data = 'data' + ($dataLvl || '');\n var $valid = 'valid' + $lvl;\n var $errs = 'errs__' + $lvl;\n var $it = it.util.copy(it);\n var $closingBraces = '';\n
  $it.level++;\n var $nextValid = 'valid' + $it.level;\n var $idx = 'i' + $lvl,\n  $dataNxt = $it.dataLevel =
it.dataLevel + 1,\n  $nextData = 'data' + $dataNxt,\n  $currentBaseId = it.baseId;\n out += 'var ' + ($errs) + ' =
errors;var ' + ($valid) + ';\n if (Array.isArray($schema)) {\n   var $additionalItems = it.schema.additionalItems;\n if ($additionalItems === false) {\n   out += ' + ($valid) + ' = ' + ($data) + '.length <= ' + ($schema.length) + ';\n   var $currErrSchemaPath = $errSchemaPath;\n   $errSchemaPath = it.errSchemaPath + '/additionalItems';\n   out
+= ' if (!(' + ($valid) + ')) {\n     var $$outStack = $$outStack || [];\n     $$outStack.push(out);\n     out = ';\n     /*
istanbul ignore else */\n     if (it.createErrors !== false) {\n       out += ' { keyword: \'' + ('additionalItems') + '\',
dataPath: (dataPath || '\\\\') + ' + (it.errorPath) + ', schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ',
params: { limit:
' + ($schema.length) + ' }';\n       if (it.opts.messages !== false) {\n         out += ' , message: \\'should NOT have
more than ' + ($schema.length) + ' items\\';\n       }\n       if (it.opts.verbose) {\n         out += ' , schema: false ,
parentSchema: validate.schema' + (it.schemaPath) + ' , data: ' + ($data) + ';\n       }\n       out += ' }';\n     } else
{\n       out += ' }';\n     }\n     var __err = out;\n     out = $$outStack.pop();\n     if (!it.compositeRule &&
$breakOnError) { /* istanbul ignore if */\n       if (it.async) {\n         out += ' throw new ValidationError([' + (__err)
+ ']);\n       }\n     } else {\n       out += ' validate.errors = [' + (__err) + ']; return false;';\n     }\n   } else {\n     out
+= ' var err = ' + (__err) + ';\n     if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++;;\n   }\n   out
+= ' }';\n   $errSchemaPath = $currErrSchemaPath;\n   if ($breakOnError) {\n     $closingBraces
+= '};\n     out += ' else {\n     }\n     var arr1 = $schema;\n     if (arr1) {\n       var $sch, $i = -1,\n         $l1 =
arr1.length - 1;\n       while ($i < $l1) {\n         $sch = arr1[$i + 1];\n         if (it.util.schemaHasRules($sch,
it.RULES.all)) {\n           out += ' + ($nextValid) + ' = true; if (' + ($data) + '.length > ' + ($i) + ') {\n             var
$passData = $data + '[' + $i + '];\n             $it.schema = $sch;\n             $it.schemaPath = $schemaPath + '[' + $i + '];\n
             $it.errSchemaPath = $errSchemaPath + '/' + $i;\n             $it.errorPath = it.util.getPathExpr(it.errorPath, $i,
it.opts.jsonPointers, true);\n             $it.dataPathArr[$dataNxt] = $i;\n             var $code = it.validate($it);\n
             $it.baseId = $currentBaseId;\n             if (it.util.varOccurrences($code, $nextData) < 2) {\n               out += ' +
(it.util.varReplace($code, $nextData, $passData)) + ';\n             } else {\n               out += ' var ' + ($nextData) + ' = ' +
($passData)
+ ';\n               ' + ($code) + ';\n             }\n             out += ' }';\n             if ($breakOnError) {\n               out += ' if (' + ($nextValid)
+ ') {\n               $closingBraces += '};\n             }\n           }\n         }\n         if (typeof $additionalItems == 'object' &&
it.util.schemaHasRules($additionalItems, it.RULES.all)) {\n           $it.schema = $additionalItems;\n           $it.schemaPath
= it.schemaPath + '.additionalItems';\n           $it.errSchemaPath = it.errSchemaPath + '/additionalItems';\n           out += ' +
($nextValid) + ' = true; if (' + ($data) + '.length > ' + ($schema.length) + ') {\n             for (var ' + ($idx) + ' = ' +
($schema.length) + ';\n             ' + ($idx) + ' < ' + ($data) + '.length; ' + ($idx) + '++) {\n               $it.errorPath =
it.util.getPathExpr(it.errorPath, $idx, it.opts.jsonPointers, true);\n               var $passData = $data + '[' + $idx + '];\n
               $it.dataPathArr[$dataNxt] = $idx;\n               var $code = it.validate($it);\n               $it.baseId = $currentBaseId;\n               if
(it.util.varOccurrences($code,
$nextData) < 2) {\n                 out += ' + (it.util.varReplace($code, $nextData, $passData)) + ';\n               } else {\n                 out
+= ' var ' + ($nextData) + ' = ' + ($passData) + ';\n                 ' + ($code) + ';\n               }\n               if ($breakOnError) {\n                 out += ' if (' +
($nextValid) + ') break;';\n               }\n               out += ' } }';\n               if ($breakOnError) {\n                 out += ' if (' +
($nextValid) + ') {\n                 $closingBraces += '};\n               }\n             }\n           } else if (it.util.schemaHasRules($schema,
it.RULES.all)) {\n             $it.schema = $schema;\n             $it.schemaPath = $schemaPath;\n             $it.errSchemaPath =
$errSchemaPath;\n             out += ' for (var ' + ($idx) + ' = ' + (0) + ';\n             ' + ($idx) + ' < ' + ($data) + '.length; ' + ($idx) + '++)
{\n               $it.errorPath = it.util.getPathExpr(it.errorPath, $idx, it.opts.jsonPointers, true);\n               var $passData = $data + '['
+ $idx + '];\n               $it.dataPathArr[$dataNxt] = $idx;\n               var $code = it.validate($it);\n               $it.baseId = $currentBaseId;\n
             }\n           }\n         }\n       }\n     }\n   }\n   if (it.util.varOccurrences($code, $nextData) < 2) {\n     out += ' + (it.util.varReplace($code, $nextData, $passData))
+ ';\n   } else {\n     out += ' var ' + ($nextData) + ' = ' + ($passData) + ';\n     ' + ($code) + ';\n   }\n   if

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($breakOnError) {\n    out += ' if (! + ($nextValid) + ) break; '; \n    out += ' '; \n } \n if ($breakOnError) {\n
    out += ' ' + ($closingBraces) + ' if ( ' + ($errs) + ' == errors) {'; \n    out = it.util.cleanupCode(out); \n    return
    out; \n } \n \n \n \n // WEBPACK FOOTER // \n // ..~/ajv/lib/dotjs/items.js", "use strict"; \n module.exports = function
generate__limit(it, $keyword, $ruleType) {\n    var out = ' '; \n    var $lvl = it.level; \n    var $dataLvl = it.dataLevel; \n
    var $schema = it.schema[$keyword]; \n    var $schemaPath = it.schemaPath + it.util.getProperty($keyword); \n    var
    $errSchemaPath = it.errSchemaPath + '/' + $keyword; \n    var $breakOnError = !it.opts.allErrors; \n    var
    $errorKeyword; \n    var $data = 'data' + ($dataLvl || ''); \n    var $isData
    = it.opts.$data && $schema && $schema.$data; \n    $schemaValue; \n    if ($isData) {\n        out += ' var schema' +
        ($lvl) + ' = ' + (it.util.getData($schema.$data, $dataLvl, it.dataPathArr)) + ' '; \n        $schemaValue = 'schema' + $lvl; \n
    } else {\n        $schemaValue = $schema; \n    } \n    var $isMax = $keyword == 'maximum'; \n    $exclusiveKeyword =
    $isMax ? 'exclusiveMaximum' : 'exclusiveMinimum'; \n    $schemaExcl = it.schema[$exclusiveKeyword]; \n
    $isDataExcl = it.opts.$data && $schemaExcl && $schemaExcl.$data; \n    $op = $isMax ? '<' : '>'; \n    $notOp =
    $isMax ? '>' : '<'; \n    $errorKeyword = undefined; \n    if ($isDataExcl) {\n        var $schemaValueExcl =
        it.util.getData($schemaExcl.$data, $dataLvl, it.dataPathArr); \n        $exclusive = 'exclusive' + $lvl; \n        $exclType =
        'exclType' + $lvl; \n        $exclIsNumber = 'exclIsNumber' + $lvl; \n        $opExpr = 'op' + $lvl; \n        $opStr = '\\ ' +
        $opExpr + ' + \\'; \n        out += ' var schemaExcl' + ($lvl) + ' = ' + ($schemaValueExcl) + ' '; \n
        $schemaValueExcl = 'schemaExcl' + $lvl; \n        out += ' var ' + ($exclusive) + ' ; var ' + ($exclType) + ' = typeof ' +
        ($schemaValueExcl) + ' ; if ( ' + ($exclType) + ' != \\boolean\\ && ' + ($exclType) + ' != \\undefined\\ && ' +
        ($exclType) + ' != \\number\\ ) {'; \n        var $errorKeyword = $exclusiveKeyword; \n        var $$outStack = $$outStack ||
        []; \n        $$outStack.push(out); \n        out = ''; \n        /* istanbul ignore else */ \n        if (it.createErrors !== false) {\n            out += ' {
            keyword: \\ ' + ($errorKeyword || '_exclusiveLimit') + '\\ , dataPath: (dataPath || \\ \\) + ' + (it.errorPath) + ' ,
            schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ' , params: { }'; \n            if (it.opts.messages !== false) {\n
                out += ' , message: \\ ' + ($exclusiveKeyword) + ' should be boolean\\ '; \n            } \n            if (it.opts.verbose) {\n
                out += ' , schema: validate.schema' + ($schemaPath) + ' , parentSchema: validate.schema' + (it.schemaPath) + ' , data: ' +
                ($data) + ' '; \n            } \n        } \n        out += ' }'; \n    } else {\n        out += ' {'; \n    } \n    var __err = out; \n
    out = $$outStack.pop(); \n    if
    (!it.compositeRule && $breakOnError) { /* istanbul ignore if */ \n        if (it.async) {\n            out += ' throw new
            ValidationError([' + (__err) + ']);'; \n        } else {\n            out += ' validate.errors = [' + (__err) + ']; return false;'; \n
        } \n    } else {\n        out += ' var err = ' + (__err) + ' ; if (vErrors === null) vErrors = [err]; else vErrors.push(err);
        errors++;'; \n    } \n    out += ' } else if ('; \n    if ($isData) {\n        out += ' ( ' + ($schemaValue) + ' !== undefined &&
        typeof ' + ($schemaValue) + ' != \\number\\ ) ||'; \n    } \n    out += ' ' + ($exclType) + ' == \\number\\ ? ( ' +
        ($exclusive) + ' + ' + ($schemaValue) + ' === undefined || ' + ($schemaValueExcl) + ' + ' + ($op) + ' = ' +
        ($schemaValue) + ' ) ? ' + ($data) + ' + ' + ($notOp) + ' = ' + ($schemaValueExcl) + ' : ' + ($data) + ' + ' + ($notOp) + ' +
        ($schemaValue) + ' ) : ( ' + ($exclusive)
        + ' = ' + ($schemaValueExcl) + ' === true ) ? ' + ($data) + ' + ' + ($notOp) + ' = ' + ($schemaValue) + ' : ' + ($data) + '
        + ' + ($notOp) + ' + ' + ($schemaValue) + ' ) || ' + ($data) + ' != ' + ($data) + ' ) { var op' + ($lvl) + ' = ' + ($exclusive) +
        ' ? \\ ' + ($op) + '\\ : \\ ' + ($op) + ' = \\';'; \n    } else {\n        var $exclIsNumber = typeof $schemaExcl == 'number'; \n
        $opStr = $op; \n        if ($exclIsNumber && $isData) {\n            var $opExpr = '\\ ' + $opStr + '\\'; \n            out += ' if ('; \n
            if ($isData) {\n                out += ' ( ' + ($schemaValue) + ' !== undefined && typeof ' + ($schemaValue) + ' !=
                \\number\\ ) ||'; \n            } \n            out += ' ( ' + ($schemaValue) + ' === undefined || ' + ($schemaExcl) + ' + ' + ($op) +
            ' = ' +
            ($schemaValue) + ' ? ' + ($data) + ' + ' + ($notOp) + ' = ' + ($schemaExcl) + ' : ' + ($data) + ' + ' + ($notOp) + ' +
            ($schemaValue) + ' ) || ' + ($data) + ' != ' + ($data) + ' ) {'; \n        } else {\n            if ($exclIsNumber && $schema ===
            undefined) {\n                $exclusive = true; \n                $errorKeyword = $exclusiveKeyword; \n                $errSchemaPath =
                it.errSchemaPath + '/' + $exclusiveKeyword; \n                $schemaValue = $schemaExcl; \n                $notOp += '='; \n
            } else {\n                if
                ($exclIsNumber) $schemaValue = Math[$isMax ? 'min' : 'max']($schemaExcl, $schema); \n                if ($schemaExcl
                === ($exclIsNumber ? $schemaValue : true)) {\n                    $exclusive = true; \n                    $errorKeyword =
                    $exclusiveKeyword; \n                    $errSchemaPath = it.errSchemaPath + '/' + $exclusiveKeyword; \n                    $notOp +=

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    $dataLvl, it.dataPathArr)) + ';';\n  $schemaValue = 'schema' + $lvl;\n } else {\n  $schemaValue = $schema;\n
}\n var $op = $keyword == 'maxLength' ? '>': '<';\n out += 'if (';\n if ($isData) {\n  out += ' (' + ($schemaValue)
+ ' !== undefined && typeof ' + ($schemaValue) + ' !== \\number\\) ||';\n };\n if (it.opts.unicode === false) {\n  out
+= ' ' + ($data) + '.length';\n } else {\n  out += ' ucs2length(' + ($data) + ')';\n };\n out += ' ' + ($op) + ' ' +
($schemaValue) + ') {';\n var $errorKeyword = $keyword;\n var $$outStack = $$outStack || [];\n
$$outStack.push(out);\n out = "/* istanbul ignore else */\n if (it.createErrors !== false) {\n  out += ' { keyword:
\\\" + ($errorKeyword || '_limitLength') + '\\\", dataPath: (dataPath || \\\"\\\") + ' + (it.errorPath) + ', schemaPath: ' +
(it.util.toQuotedString($errSchemaPath)) + ', params: { limit: ' + ($schemaValue) + ' }';\n  if (it.opts.messages !==
false) {\n  out += ', message: \\\"should
NOT be';\n  if ($keyword == 'maxLength') {\n  out += ' longer';\n  } else {\n  out += ' shorter';\n  }\n
out += ' than';\n  if ($isData) {\n  out += '\\\" + ' + ($schemaValue) + ' + '\\\"';\n  } else {\n  out += " +
($schema);\n  }\n  out += ' characters\\\"';\n  }\n  if (it.opts.verbose) {\n  out += ', schema: ';;\n  if
($isData) {\n  out += 'validate.schema' + ($schemaPath);\n  } else {\n  out += " + ($schema);\n  }\n
out += ' , parentSchema: validate.schema' + (it.schemaPath) + ', data: ' + ($data) + '';\n  }\n  out += ' }';\n
} else {\n  out += ' }';\n }\n var __err = out;\n out = $$outStack.pop();\n if (!it.compositeRule &&
$breakOnError) { /* istanbul ignore if */\n  if (it.async) {\n  out += ' throw new ValidationError([' + (__err) + ']);
';\n  } else {\n  out += ' validate.errors = [' + (__err) + ']; return false;';\n  }\n } else {\n  out
+= ' var err = ' + (__err) + '; if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++;';\n }\n out +=
'}';\n if ($breakOnError) {\n  out += ' else {';\n  }\n return out;\n}\n\n\n\n// WEBPACK FOOTER //\n\n//
../~/ajv/lib/dotjs/_limitLength.js", "use strict";\nmodule.exports = function generate__limitProperties(it, $keyword,
$ruleType) {\n  var out = '';\n  var $lvl = it.level;\n  var $dataLvl = it.dataLevel;\n  var $schema =
it.schema[$keyword];\n  var $schemaPath = it.schemaPath + it.util.getProperty($keyword);\n  var $errSchemaPath =
it.errSchemaPath + '/' + $keyword;\n  var $breakOnError = !it.opts.allErrors;\n  var $errorKeyword;\n  var $data =
'data' + ($dataLvl || '');\n  var $isData = it.opts.$data && $schema && $schema.$data,\n  $schemaValue;\n  if
($isData) {\n  out += ' var schema' + ($lvl) + ' = ' + (it.util.getData($schema.$data, $dataLvl, it.dataPathArr)) + ';\n
';\n  $schemaValue = 'schema' + $lvl;\n } else {\n  $schemaValue = $schema;\n
}\n  var $op = $keyword == 'maxProperties' ? '>': '<';\n  out += 'if (';\n  if ($isData) {\n  out += ' (' +
($schemaValue) + ' !== undefined && typeof ' + ($schemaValue) + ' !== \\number\\) ||';\n  }\n  out += '
Object.keys(' + ($data) + ').length ' + ($op) + ' ' + ($schemaValue) + ') {';\n  var $errorKeyword = $keyword;\n  var
$$outStack = $$outStack || [];\n  $$outStack.push(out);\n  out = "/* istanbul ignore else */\n if (it.createErrors !==
false) {\n  out += ' { keyword: \\\" + ($errorKeyword || '_limitProperties') + '\\\", dataPath: (dataPath || \\\"\\\") + ' +
(it.errorPath) + ', schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ', params: { limit: ' + ($schemaValue)
+ ' }';\n  if (it.opts.messages !== false) {\n  out += ', message: \\\"should NOT have';\n  if ($keyword ==
'maxProperties') {\n  out += ' more';\n  } else {\n  out += ' less';\n  }\n  }\n  out += ' than';\n  if ($isData)
{\n  out += '\\\" + ' + ($schemaValue)
+ ' + '\\\"';\n  } else {\n  out += " + ($schema);\n  }\n  out += ' properties\\\"';\n  }\n  if (it.opts.verbose)
{\n  out += ', schema: ';;\n  if ($isData) {\n  out += 'validate.schema' + ($schemaPath);\n  } else {\n  out += " +
($schema);\n  }\n  out += ' , parentSchema: validate.schema' + (it.schemaPath) + ', data: ' +
($data) + '';\n  }\n  out += ' }';\n } else {\n  out += ' }';\n }\n var __err = out;\n out = $$outStack.pop();\n if
(!it.compositeRule && $breakOnError) { /* istanbul ignore if */\n  if (it.async) {\n  out += ' throw new
ValidationError([' + (__err) + ']);';\n  } else {\n  out += ' validate.errors = [' + (__err) + ']; return false;';\n  }\n
} else {\n  out += ' var err = ' + (__err) + '; if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++;
';\n  }\n  out += ' }';\n  if ($breakOnError) {\n  out += ' else {';\n  }\n  return out;\n}\n\n\n\n// WEBPACK
FOOTER //\n\n// ../~/ajv/lib/dotjs/_limitProperties.js", "use strict";\nmodule.exports = function
generate_multipleOf(it, $keyword, $ruleType) {\n  var out = '';\n  var $lvl = it.level;\n  var $dataLvl =
it.dataLevel;\n  var $schema = it.schema[$keyword];\n  var $schemaPath = it.schemaPath +
it.util.getProperty($keyword);\n  var $errSchemaPath = it.errSchemaPath + '/' + $keyword;\n  var $breakOnError =
!it.opts.allErrors;\n  var $data = 'data' + ($dataLvl || '');\n  var $isData = it.opts.$data &&

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$schema.$data,\n  $schemaValue;\n  if ($isData) {\n    out += ' var schema' + ($lvl) + ' = ' +
(it.util.getData($schema.$data, $dataLvl, it.dataPathArr)) + ' ';;\n  $schemaValue = 'schema' + $lvl;\n  } else {\n
$schemaValue = $schema;\n  }\n  out += 'var division' + ($lvl) + ' ;if (';\n  if ($isData) {\n    out += ' ' +
($schemaValue) + ' !== undefined && ( typeof ' + ($schemaValue) + ' !== \'number\' || ';\n  }\n  out += ' (division' +
($lvl) + ' = ' + ($data) + ' / ' +
($schemaValue) + ' );\n  if (it.opts.multipleOfPrecision) {\n    out += ' Math.abs(Math.round(division' + ($lvl) + ') -
division' + ($lvl) + ') > 1e-' + (it.opts.multipleOfPrecision) + ' ';;\n  } else {\n    out += ' division' + ($lvl) + ' !==
parseInt(division' + ($lvl) + ') ';\n  }\n  out += ') ';\n  if ($isData) {\n    out += ' ) ';\n  }\n  out += ' ) { ';\n  var
$$outStack = $$outStack || [];\n  $$outStack.push(out);\n  out = "/* istanbul ignore else */\n  if (it.createErrors !==
false) {\n    out += ' { keyword: \'' + ('multipleOf') + '\', dataPath: (dataPath || '\') + ' + (it.errorPath) + ' ,
schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ' , params: { multipleOf: ' + ($schemaValue) + ' } ';\n
if (it.opts.messages !== false) {\n    out += ' , message: \'' + 'should be multiple of ';\n    if ($isData) {\n      out += '\
' + ($schemaValue);\n    } else {\n      out += " + ($schemaValue) + " ';\n    }\n  }\n  if (it.opts.verbose) {\n
    out += ' , schema: ';\n    if ($isData) {\n      out += 'validate.schema' + ($schemaPath);\n    } else {\n      out
+= " + ($schema);\n    }\n    out += ' , parentSchema: validate.schema' + (it.schemaPath) + ' , data: ' + ($data)
+ ' ';\n  }\n  out += ' } ';\n  } else {\n    out += ' {} ';\n  }\n  var __err = out;\n  out = $$outStack.pop();\n  if
(!it.compositeRule && $breakOnError) { /* istanbul ignore if */\n    if (it.async) {\n      out += ' throw new
ValidationError([' + (__err) + ']);\n    } else {\n      out += ' validate.errors = [' + (__err) + ']; return false; ';\n
}\n  } else {\n    out += ' var err = ' + (__err) + ' ; if (vErrors === null) vErrors = [err]; else vErrors.push(err);
errors++;\n  ';\n  }\n  out += ' } ';\n  if ($breakOnError) {\n    out += ' else { ';\n  }\n  return out;\n}\n\n\n\n// WEBPACK
FOOTER /\n// ../~/ajv/lib/dotjs/multipleOf.js", "use strict";\nmodule.exports = function generate_not(it, $keyword,
$ruleType) {\n  var out
= ' ';\n  var $lvl = it.level;\n  var $dataLvl = it.dataLevel;\n  var $schema = it.schema[$keyword];\n  var
$schemaPath = it.schemaPath + it.util.getProperty($keyword);\n  var $errSchemaPath = it.errSchemaPath + '/' +
$keyword;\n  var $breakOnError = !it.opts.allErrors;\n  var $data = 'data' + ($dataLvl || '');\n  var $errs = 'errs__' +
$lvl;\n  var $it = it.util.copy(it);\n  $it.level++;\n  var $nextValid = 'valid' + $it.level;\n  if
(it.util.schemaHasRules($schema, it.RULES.all)) {\n    $it.schema = $schema;\n    $it.schemaPath = $schemaPath;\n
$it.errSchemaPath = $errSchemaPath;\n    out += ' var ' + ($errs) + ' = errors; ';\n    var $wasComposite =
it.compositeRule;\n    it.compositeRule = $it.compositeRule = true;\n    $it.createErrors = false;\n    var
$allErrorsOption;\n    if ($it.opts.allErrors) {\n      $allErrorsOption = $it.opts.allErrors;\n      $it.opts.allErrors =
false;\n    }\n    out += ' ' + (it.validate($it)) + ' ';\n    $it.createErrors = true;\n    if ($allErrorsOption)
$it.opts.allErrors = $allErrorsOption;\n    it.compositeRule = $it.compositeRule = $wasComposite;\n    out += ' if ('
+ ($nextValid) + ') { ';\n    var $$outStack = $$outStack || [];\n    $$outStack.push(out);\n    out = "/* istanbul
ignore else */\n    if (it.createErrors !== false) {\n      out += ' { keyword: \'' + ('not') + '\', dataPath: (dataPath ||
\') + ' + (it.errorPath) + ' , schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ' , params: { } ';\n    if
(it.opts.messages !== false) {\n      out += ' , message: \'' + 'should NOT be valid' + ' ';\n    }\n    if (it.opts.verbose) {\n
      out += ' , schema: validate.schema' + ($schemaPath) + ' , parentSchema: validate.schema' + (it.schemaPath) + ' ,
data: ' + ($data) + ' ';\n    }\n    out += ' } ';\n  } else {\n    out += ' {} ';\n  }\n  var __err = out;\n  out =
$$outStack.pop();\n  if (!it.compositeRule && $breakOnError) { /* istanbul ignore if */\n    if (it.async) {\n
      out += ' throw new ValidationError([' + (__err) + ']);\n    } else {\n      out += ' validate.errors = [' + (__err) +
']; return false; ';\n    }\n  } else {\n    out += ' var err = ' + (__err) + ' ; if (vErrors === null) vErrors = [err];
else vErrors.push(err); errors++;\n  ';\n  }\n  out += ' } else { errors = ' + ($errs) + ' ; if (vErrors !== null) { if ('
+ ($errs) + ') vErrors.length = ' + ($errs) + ' ; else vErrors = null; } ';\n  if (it.opts.allErrors) {\n    out += ' };\n
}\n  } else {\n    out += ' var err = ';\n  /* istanbul ignore else */\n  if (it.createErrors !== false) {\n    out += ' { keyword: \''
+ ('not') + '\', dataPath: (dataPath || '\') + ' + (it.errorPath) + ' , schemaPath: ' +
(it.util.toQuotedString($errSchemaPath)) + ' , params: { } ';\n    if (it.opts.messages !== false) {\n      out += ' ,
message: \'' + 'should NOT be valid' + ' ';\n    }\n    if (it.opts.verbose) {\n      out += ' , schema: validate.schema'
+ ($schemaPath)

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+ ' , parentSchema: validate.schema' + (it.schemaPath) + ' , data: ' + ($data) + ' '; \n    } \n    out += ' } '; \n  } else
{\n    out += ' { ' ; \n  } \n  out += ' ; if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++; ; \n  if
($breakOnError) {\n    out += ' if (false) { ' ; \n  } \n  } \n  return out; \n} \n \n \n \n // WEBPACK FOOTER // \n //
../~/ajv/lib/dotjs/not.js", "use strict"; \n module.exports = function generate_oneOf(it, $keyword, $ruleType) {\n  var
out = ' ; \n  var $lvl = it.level; \n  var $dataLvl = it.dataLevel; \n  var $schema = it.schema[$keyword]; \n  var
$schemaPath = it.schemaPath + it.util.getProperty($keyword); \n  var $errSchemaPath = it.errSchemaPath + '/' +
$keyword; \n  var $breakOnError = !it.opts.allErrors; \n  var $data = 'data' + ($dataLvl || ''); \n  var $valid = 'valid' +
$lvl; \n  var $errs = 'errs_' + $lvl; \n  var $it = it.util.copy(it); \n  var $closingBraces = ''; \n  $it.level++; \n  var
$nextValid = 'valid' + $it.level; \n  out +=
'var ' + ($errs) + ' = errors; var prevValid' + ($lvl) + ' = false; var ' + ($valid) + ' = false; '; \n  var $currentBaseId =
$it.baseId; \n  var $wasComposite = it.compositeRule; \n  it.compositeRule = $it.compositeRule = true; \n  var arr1 =
$schema; \n  if (arr1) {\n    var $sch, $i = -1, $l1 = arr1.length - 1; \n    while ($i < $l1) {\n      $sch = arr1[$i +=
1]; \n      if (it.util.schemaHasRules($sch, it.RULES.all)) {\n        $it.schema = $sch; \n        $it.schemaPath =
$schemaPath + '[' + $i + ']'; \n        $it.errSchemaPath = $errSchemaPath + '/' + $i; \n        out += ' ' + (it.validate($it))
+ ' ; \n        $it.baseId = $currentBaseId; \n      } else {\n        out += ' var ' + ($nextValid) + ' = true; ' ; \n      } \n      if
($i) {\n        out += ' if (' + ($nextValid) + ' && prevValid' + ($lvl) + ') ' + ($valid) + ' = false; else { ' ; \n        $closingBraces += ' } ; \n      } \n      out += ' if (' + ($nextValid) + ') ' + ($valid) + ' = prevValid' + ($lvl) + ' = true; ' ; \n    } \n  } \n  it.compositeRule = $it.compositeRule = $wasComposite; \n  out += " + ($closingBraces) + ' if (!' + ($valid) + ') {
var err = ' ; /* istanbul ignore else */ \n  if (it.createErrors !== false) {\n    out += ' { keyword: \'' + ('oneOf') + '\',
dataPath: (dataPath || \'' + (it.errorPath) + '\', schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + '\',
params: { ' ; \n    if (it.opts.messages !== false) {\n      out += ' , message: \'' + 'should match exactly one schema in
oneOf' + '\', \n    } \n    if (it.opts.verbose) {\n      out += ' , schema: validate.schema' + ($schemaPath) + '\',
parentSchema: validate.schema' + (it.schemaPath) + '\', data: ' + ($data) + ' '; \n    } \n    out += ' } '; \n  } else {\n    out
+= ' { ' ; \n  } \n  out += ' ; if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++; ; \n  if
(!it.compositeRule && $breakOnError) { /* istanbul ignore if */ \n    if (it.async) {\n      out += ' throw new
ValidationErrors(vErrors); ' ; \n    } else {\n      out += ' validate.errors = vErrors; return false; ' ; \n    } \n  } \n  } \n  out += ' } else { errors = ' + ($errs) + ' ; if (vErrors !==
null) { if (' + ($errs) + ') vErrors.length = ' + ($errs) + ' ; else vErrors = null; } ; \n  if (it.opts.allErrors) {\n    out += ' }
' ; \n  } \n  return out; \n} \n \n \n \n // WEBPACK FOOTER // \n // ../~/ajv/lib/dotjs/oneOf.js", "use strict"; \n module.exports
= function generate_pattern(it, $keyword, $ruleType) {\n  var out = ' ; \n  var $lvl = it.level; \n  var $dataLvl =
it.dataLevel; \n  var $schema = it.schema[$keyword]; \n  var $schemaPath = it.schemaPath +
it.util.getProperty($keyword); \n  var $errSchemaPath = it.errSchemaPath + '/' + $keyword; \n  var $breakOnError =
!it.opts.allErrors; \n  var $data = 'data' + ($dataLvl || ''); \n  var $isData = it.opts.$data && $schema &&
$schema.$data; \n  var $schemaValue; \n  if ($isData) {\n    out += ' var schema' + ($lvl) + ' = ' +
(it.util.getData($schema.$data, $dataLvl, it.dataPathArr)) + ' ; ' ; \n    $schemaValue = 'schema' + $lvl; \n  }
else {\n    $schemaValue = $schema; \n  } \n  var $regexp = $isData ? '(new RegExp(' + $schemaValue + '))' :
it.usePattern($schema); \n  out += ' if ( ' ; \n  if ($isData) {\n    out += ' (' + ($schemaValue) + ') !== undefined &&
typeof ' + ($schemaValue) + ' !== \'string\' ) || ' ; \n  } \n  out += ' !' + ($regexp) + '.test(' + ($data) + ') ) { ' ; \n  var
$$outStack = $$outStack || []; \n  $$outStack.push(out); \n  out = ' ; /* istanbul ignore else */ \n  if (it.createErrors !==
false) {\n    out += ' { keyword: \'' + ('pattern') + '\', dataPath: (dataPath || \'' + (it.errorPath) + '\', schemaPath: '
+ (it.util.toQuotedString($errSchemaPath)) + '\', params: { pattern: ' ; \n    if ($isData) {\n      out += ' ' +
($schemaValue) ; \n    } else {\n      out += " + (it.util.toQuotedString($schema)); \n    } \n    out += ' } ' ; \n  } \n  if
(it.opts.messages !== false) {\n    out += ' , message: \'' + 'should match pattern \'' ; \n    if ($isData) {\n      out += ' \''
+ ' + ($schemaValue) + '
+ \'' ; \n    } else {\n      out += " + (it.util.escapeQuotes($schema)); \n    } \n    out += ' \'' ; \n  } \n  if
(it.opts.verbose) {\n    out += ' , schema: ' ; \n    if ($isData) {\n      out += ' validate.schema' + ($schemaPath) ; \n    }
else {\n      out += " + (it.util.toQuotedString($schema)); \n    } \n    out += ' , parentSchema:

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validate.schema' + (it.schemaPath) + ', data: ' + ($data) + ';\n } \n out += ' }';\n } else {\n out += ' { }';\n }\n
var __err = out;\n out = $$outStack.pop();\n if (!it.compositeRule && $breakOnError) { /* istanbul ignore if */\n
if (it.async) {\n out += ' throw new ValidationError([' + (__err) + ']);\n } else {\n out += ' validate.errors =\n
[' + (__err) + ']; return false;';\n }\n } else {\n out += ' var err = ' + (__err) + '; if (vErrors === null) vErrors =\n
[err]; else vErrors.push(err); errors++;';\n }\n out += ');\n if ($breakOnError) {\n out += ' else {';\n }\n
return out;\n}\n\n\n// WEBPACK FOOTER //\n\n../ajv/lib/dotjs/pattern.js", "use strict";\nmodule.exports =\n
function generate_properties(it, $keyword, $ruleType) {\n var out = ';\n var $lvl = it.level;\n var $dataLvl =\n
it.dataLevel;\n var $schema = it.schema[$keyword];\n var $schemaPath = it.schemaPath +\n
it.util.getProperty($keyword);\n var $errSchemaPath = it.errSchemaPath + '/' + $keyword;\n var $breakOnError =\n
!it.opts.allErrors;\n var $data = 'data' + ($dataLvl || '');\n var $valid = 'valid' + $lvl;\n var $errs = 'errs_' + $lvl;\n
var $it = it.util.copy(it);\n var $closingBraces = '';\n var $nextValid = 'valid' + $it.level;\n var $key\n
= 'key' + $lvl,\n $idx = 'idx' + $lvl,\n $dataNxt = $it.dataLevel = it.dataLevel + 1,\n $nextData = 'data' +\n
$dataNxt,\n $dataProperties = 'dataProperties' + $lvl;\n var $schemaKeys = Object.keys($schema || {}),\n
$properties = it.schema.patternProperties || {},\n $propertyKeys = Object.keys($properties),\n
$additionalProperties = it.schema.additionalProperties,\n $someProperties = $schemaKeys.length ||\n
$propertyKeys.length,\n $noAdditional = $additionalProperties === false,\n $additionalIsSchema = typeof $additionalProperties\n
=== 'object' && Object.keys($additionalProperties).length,\n $removeAdditional = it.opts.removeAdditional,\n
$checkAdditional = $noAdditional || $additionalIsSchema || $removeAdditional,\n $ownProperties =\n
it.opts.ownProperties,\n $currentBaseId = it.baseId;\n var $required = it.schema.required;\n if ($required &&\n
!(it.opts.v5 && $required.$data) && $required.length < it.opts.loopRequired) var $requiredHash =\n
it.util.toHash($required);\n if (it.opts.patternGroups) {\n var $pgProperties = it.schema.patternGroups || {},\n
$pgPropertyKeys = Object.keys($pgProperties);\n }\n out += 'var ' + ($errs) + ' = errors;var ' + ($nextValid) + '= \n
true;';\n if ($ownProperties) {\n out += 'var ' + ($dataProperties) + ' = undefined;';\n }\n if ($checkAdditional)\n
{\n if ($ownProperties) {\n out += ' ' + ($dataProperties) + ' = ' + ($dataProperties) + ' || Object.keys(' + ($data)\n
+ '); for (var ' + ($idx) + '=0; ' + ($idx) + '<' + ($dataProperties) + '.length; ' + ($idx) + '++) { var ' + ($key) + ' = '\n
' + ($dataProperties) + '[' + ($idx) + '];';\n } else {\n out += ' for (var ' + ($key) + ' in ' + ($data) + ') {';\n }\n
if ($someProperties) {\n out += ' var isAdditional' + ($lvl) + ' = !(false';\n if ($schemaKeys.length) {\n if\n
($schemaKeys.length > 5) {\n out += ' || validate.schema' + ($schemaPath) + '[' + ($key) + '];\n } else {\n
var arr1 = $schemaKeys;\n if (arr1) {\n var $propertyKey, i1 = -1,\n l1 = arr1.length - 1;\n
while (i1 < l1) {\n $propertyKey = arr1[i1 += 1];\n out += ' || ' + ($key) + ' == ' +\n
(it.util.toQuotedString($propertyKey)) + ';\n }\n }\n }\n }\n
if ($propertyKeys.length) {\n var arr2 = $propertyKeys;\n if (arr2) {\n var $pProperty, $i = -1,\n
l2 = arr2.length - 1;\n while ($i < l2) {\n $pProperty = arr2[$i += 1];\n out += ' || '\n
(it.usePattern($pProperty)) + '.test(' + ($key) + ')';\n }\n }\n }\n if (it.opts.patternGroups &&\n
$pgPropertyKeys.length) {\n var arr3 = $pgPropertyKeys;\n if (arr3) {\n var $pgProperty, $i = -1,\n
l3 = arr3.length - 1;\n while ($i < l3) {\n $pgProperty = arr3[$i += 1];\n out += ' || '\n
(it.usePattern($pgProperty)) + '.test(' + ($key) + ')';\n }\n }\n }\n out += ' ); if (isAdditional' + ($lvl)\n
+ ') {';\n }\n if ($removeAdditional === 'all') {\n out += ' delete ' + ($data) + '[' + ($key) + '];\n } else {\n
var $currentErrorPath = it.errorPath;\n var $additionalProperty = '\\\' + ' + $key +\n
' + '\\';\n if (it.opts._errorDataPathProperty) {\n it.errorPath = it.util.getPathExpr(it.errorPath, $key,\n
it.opts.jsonPointers);\n }\n if ($noAdditional) {\n if ($removeAdditional) {\n out += ' delete '\n
($data) + '[' + ($key) + '];';\n } else {\n out += ' ' + ($nextValid) + ' = false;';\n var\n
$currErrSchemaPath = $errSchemaPath;\n $errSchemaPath = it.errSchemaPath + '/additionalProperties';\n
var $$outStack = $$outStack || [];\n $$outStack.push(out);\n out = '';\n /* istanbul ignore else */\n if\n
(it.createErrors !== false) {\n out += ' { keyword: '\\\' + ('additionalProperties') + '\\', dataPath: (dataPath ||\n
\\\'\\') + ' + (it.errorPath) + ', schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ', params: {\n
additionalProperty: '\\\' + ($additionalProperty) + '\\\' }';\n if (it.opts.messages !== false) {\n out += ',\n
message: \\\'should\n

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NOT have additional properties\\';\n        }\n        if (it.opts.verbose) {\n            out += ' , schema: false ,\nparentSchema: validate.schema' + (it.schemaPath) + ' , data: ' + ($data) + ' '; \n        }\n        out += ' }';\n    }\n    else {\n        out += ' { }';\n    }\n    var __err = out;\n    out = $$outStack.pop();\n    if\n    (!it.compositeRule && $breakOnError) { /* istanbul ignore if */\n        if (it.async) {\n            out += ' throw new\nValidationError([' + (__err) + ']);\n        }\n    } else {\n        out += ' validate.errors = [' + (__err) + ']; return false;\n    };\n    }\n    } else {\n        out += ' var err = ' + (__err) + ' ; if (vErrors === null) vErrors = [err]; else\nvErrors.push(err); errors++;'\n    }\n    $errSchemaPath = $currErrSchemaPath;\n    if ($breakOnError)\n    {\n        out += ' break;';\n    }\n    }\n    } else if ($additionalIsSchema)\n    {\n        if ($removeAdditional === 'failing') {\n            out += ' var ' + ($errs) + ' = errors;';\n            var\n$wasComposite = it.compositeRule;\n            it.compositeRule = $it.compositeRule = true;\n            $it.schema =\n$aProperties;\n            $it.schemaPath = it.schemaPath + '.additionalProperties';\n            $it.errSchemaPath =\nit.errSchemaPath + '/additionalProperties';\n            $it.errorPath = it.opts._errorDataPathProperty ? it.errorPath :\nit.util.getPathExpr(it.errorPath, $key, it.opts.jsonPointers);\n            var $passData = $data + '[' + $key + ']';\n            $it.dataPathArr[$dataNxt] = $key;\n            var $code = it.validate($it);\n            $it.baseId = $currentBaseId;\n            if\n(it.util.varOccurrences($code, $nextData) < 2) {\n                out += ' ' + (it.util.varReplace($code, $nextData,\n$passData)) + ' '; \n            } else {\n                out += ' var ' + ($nextData) + ' = ' + ($passData) + ' ; ' + ($code) + ' '; \n            }\n            out += ' if\n(' + ($nextValid) + ') { errors = ' + ($errs) + ' ; if (validate.errors !== null) { if (errors) validate.errors.length =\nerrors; else validate.errors = null; } delete ' + ($data) + '[' + ($key) + ']; }';\n            it.compositeRule =\n$it.compositeRule = $wasComposite;\n        } else {\n            $it.schema = $aProperties;\n            $it.schemaPath =\nit.schemaPath + '.additionalProperties';\n            $it.errSchemaPath = it.errSchemaPath + '/additionalProperties';\n            $it.errorPath = it.opts._errorDataPathProperty ? it.errorPath :\nit.util.getPathExpr(it.errorPath, $key,\nit.opts.jsonPointers);\n            var $passData = $data + '[' + $key + ']';\n            $it.dataPathArr[$dataNxt] = $key;\n            var $code = it.validate($it);\n            $it.baseId = $currentBaseId;\n            if (it.util.varOccurrences($code, $nextData)\n< 2) {\n                out += ' ' + (it.util.varReplace($code, $nextData, $passData)) + ' '; \n            } else {\n                out += '\nvar ' + ($nextData) + '\n= ' + ($passData) + ' ; ' + ($code) + ' ;'\n            }\n            if ($breakOnError) {\n                out += ' if (! + ($nextValid) +\n) break;';\n            }\n            }\n            }\n            it.errorPath = $currentErrorPath;\n            }\n            if ($someProperties) {\n                out\n+= ' }';\n            }\n            out += ' }';\n        }\n        if ($breakOnError) {\n            out += ' if ( ' + ($nextValid) + ') {;\n            $closingBraces\n+= '};\n        }\n        }\n        var $useDefaults = it.opts.useDefaults && !it.compositeRule;\n        if ($schemaKeys.length) {\n            var arr4 = $schemaKeys;\n            if (arr4) {\n                var $propertyKey, i4 = -1,\n                    l4 = arr4.length - 1;\n                while (i4 <\nl4) {\n                    $propertyKey = arr4[i4 += 1];\n                    var $sch = $schema[$propertyKey];\n                    if\n(it.util.schemaHasRules($sch, it.RULES.all)) {\n                        var $prop = it.util.getProperty($propertyKey),\n                            $passData = $data + $prop,\n                            $hasDefault = $useDefaults && $sch.default !== undefined;\n                        $it.schema\n= $sch;\n                        $it.schemaPath\n= $schemaPath + $prop;\n                        $it.errSchemaPath = $errSchemaPath + '/' +\nit.util.escapeFragment($propertyKey);\n                        $it.errorPath = it.util.getPath(it.errorPath, $propertyKey,\nit.opts.jsonPointers);\n                        $it.dataPathArr[$dataNxt] = it.util.toQuotedString($propertyKey);\n                        var $code =\nit.validate($it);\n                        $it.baseId = $currentBaseId;\n                        if (it.util.varOccurrences($code, $nextData) < 2) {\n                            $code = it.util.varReplace($code, $nextData, $passData);\n                            var $useData = $passData;\n                        } else {\n                            var $useData = $nextData;\n                            out += ' var ' + ($nextData) + ' = ' + ($passData) + ' ;';\n                        }\n                        if\n($hasDefault) {\n                            out += ' ' + ($code) + ' ;'\n                        } else {\n                            if ($requiredHash &&\n$requiredHash[$propertyKey]) {\n                                out += ' if ( ' + ($useData) + ' === undefined';\n                                if\n($ownProperties) {\n                                    out += ' || ! Object.prototype.hasOwnProperty.call(\n+ ($data) + ' , \\\"' + (it.util.escapeQuotes($propertyKey)) + '\\\" )';\n                                }\n                                out += ' ) { ' + ($nextValid) + '\n= false;';\n                                var $currentErrorPath = it.errorPath,\n                                    $currErrSchemaPath = $errSchemaPath,\n                                    $missingProperty = it.util.escapeQuotes($propertyKey);\n                                if (it.opts._errorDataPathProperty) {\n                                    it.errorPath = it.util.getPath($currentErrorPath, $propertyKey, it.opts.jsonPointers);\n                                }\n                            }\n                        }\n                    }\n                }\n            }\n        }\n    }\n}

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SerrSchemaPath = it.errSchemaPath + '/required';\n      var $$outStack = $$outStack || [];\n
$$outStack.push(out);\n      out = "/* istanbul ignore else */\n      if (it.createErrors !== false) {\n
out += ' keyword: \'' + ('required') + '\', dataPath: (' + (dataPath || '') + ') + (' + (it.errorPath) + '), schemaPath: ' +\n
(it.util.toQuotedString($errSchemaPath)) + ', params: { missingProperty: \'' + ($missingProperty)\n
+ '\'}';\n      if (it.opts.messages !== false) {\n      out += ', message: \'';\n      if\n
(it.opts._errorDataPathProperty) {\n      out += 'is a required property';\n      } else {\n
out += 'should have required property \'' + ($missingProperty) + '\';\n      }\n      out += '\';\n
}\n      if (it.opts.verbose) {\n      out += ', schema: validate.schema' + ($schemaPath) + ',\n
parentSchema: validate.schema' + (it.schemaPath) + ', data: ' + ($data) + ';\n      }\n      out += ' }';\n
} else {\n      out += ' {}';\n      }\n      var __err = out;\n      out = $$outStack.pop();\n
if (!it.compositeRule && $breakOnError) { /* istanbul ignore if */\n      if (it.async) {\n      out += '\n
throw new ValidationError([\n
+ (__err) + ']);';\n      } else {\n      out += ' validate.errors = [' + (__err) + ']; return false;';\n
}\n      } else {\n      out += ' var err = ' + (__err) + '; if (vErrors === null) vErrors = [err]; else\n
vErrors.push(err); errors++;';\n      }\n      $errSchemaPath = $currErrSchemaPath;\n      it.errorPath =\n
$currentErrorPath;\n      out += ' } else {';\n      } else {\n      if ($breakOnError) {\n      out += '\n
if (' + ($useData) + ') === undefined;\n      if ($ownProperties) {\n      out += ' || '\n
Object.prototype.hasOwnProperty.call(' + ($data) + ', \'' + (it.util.escapeQuotes($propertyKey)) + '\');\n
}\n      out += ') { ' + ($nextValid) + ' = true; } else {';\n      } else {\n      out += ' if (' + ($useData)\n
+ ') !== undefined;\n      if ($ownProperties) {\n      out\n
+= ' && Object.prototype.hasOwnProperty.call(' + ($data) + ', \'' + (it.util.escapeQuotes($propertyKey)) + '\');\n
}\n      out += ') {';\n      }\n      }\n      out += ' ' + ($code) + ' }';\n      }\n      }\n
if ($breakOnError) {\n      out += ' if (' + ($nextValid) + ') {';\n      $closingBraces += '};\n      }\n      }\n      }\n
}\n      if ($pPropertyKeys.length) {\n      var arr5 = $pPropertyKeys;\n      if (arr5) {\n      var $pProperty, i5 = -1,\n
l5 = arr5.length - 1;\n      while (i5 < l5) {\n      $pProperty = arr5[i5 + 1];\n      var $sch =\n
$pProperties[$pProperty];\n      if (it.util.schemaHasRules($sch, it.RULES.all)) {\n      $it.schema = $sch;\n
$it.schemaPath = it.schemaPath + '.patternProperties' + it.util.getProperty($pProperty);\n      $it.errSchemaPath =\n
it.errSchemaPath + '/patternProperties/' + it.util.escapeFragment($pProperty);\n      if ($ownProperties)\n
{\n      out += ' ' + ($dataProperties) + ' = ' + ($dataProperties) + ' || Object.keys(' + ($data) + '); for (var ' + ($idx)\n
+ '=0; ' + ($idx) + '<' + ($dataProperties) + '.length; ' + ($idx) + '++) { var ' + ($key) + ' = ' + ($dataProperties) + '[' +\n
($idx) + '];';\n      } else {\n      out += ' for (var ' + ($key) + ' in ' + ($data) + ') {';\n      }\n      out += ' if\n
(' + (it.usePattern($pProperty)) + ').test(' + ($key) + ') {';\n      $it.errorPath = it.util.getPathExpr(it.errorPath,\n
$key, it.opts.jsonPointers);\n      var $passData = $data + '[' + $key + '];\n      $it.dataPathArr[$dataNxt] =\n
$key;\n      var $code = it.validate($it);\n      $it.baseId = $currentBaseId;\n      if\n
(it.util.varOccurrences($code, $nextData) < 2) {\n      out += ' ' + (it.util.varReplace($code, $nextData,\n
$passData)) + ';\n      } else {\n      out += ' var ' + ($nextData) + ' = ' + ($passData) + ' + ' + ($code) + ';\n
}\n
}\n      if ($breakOnError) {\n      out += ' if (!' + ($nextValid) + ') break;';\n      }\n      out += ' }';\n      if\n
($breakOnError) {\n      out += ' else ' + ($nextValid) + ' = true;';\n      }\n      out += ' }';\n      if\n
($breakOnError) {\n      out += ' if (' + ($nextValid) + ') {';\n      $closingBraces += '};\n      }\n      }\n
}\n      }\n      }\n      if (it.opts.patternGroups && $pgPropertyKeys.length) {\n      var arr6 = $pgPropertyKeys;\n      if (arr6)\n
{\n      var $pgProperty, i6 = -1,\n      l6 = arr6.length - 1;\n      while (i6 < l6) {\n      $pgProperty = arr6[i6 +\n
1];\n      var $pgSchema = $pgProperties[$pgProperty],\n      $sch = $pgSchema.schema;\n      if\n
(it.util.schemaHasRules($sch, it.RULES.all)) {\n      $it.schema = $sch;\n      $it.schemaPath = it.schemaPath +\n
'.patternGroups' + it.util.getProperty($pgProperty) + '.schema';\n      $it.errSchemaPath = it.errSchemaPath +\n
'/patternGroups/'\n
+ it.util.escapeFragment($pgProperty) + '/schema';\n      out += ' var pgPropCount' + ($lvl) + ' = 0;';\n      if\n
($ownProperties) {\n      out += ' ' + ($dataProperties) + ' = ' + ($dataProperties) + ' || Object.keys(' + ($data) + ');';\n
}\n
}\n
}

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for (var ' + ($idx) + '=0; ' + ($idx) + '<' + ($dataProperties) + '.length; ' + ($idx) + '++) { var ' + ($key) + ' = ' +
($dataProperties) + '[' + ($idx) + '];';\n      } else {\n          out += ' for (var ' + ($key) + ' in ' + ($data) + ') {';\n
      }\n      out += ' if (' + (it.usePattern($pgProperty)) + '.test(' + ($key) + ')) { pgPropCount' + ($lvl) + '++;';\n
$it.errorPath = it.util.getPathExpr(it.errorPath, $key, it.opts.jsonPointers);\n      var $passData = $data + '[' + $key
+ '];\n      $it.dataPathArr[$dataNxt] = $key;\n      var $code = it.validate($it);\n      $it.baseId =
$currentBaseId;\n      if (it.util.varOccurrences($code, $nextData) < 2) {\n          out
+= ' ' + (it.util.varReplace($code, $nextData, $passData)) + ';\n      } else {\n          out += ' var ' + ($nextData)
+ ' = ' + ($passData) + '; ' + ($code) + ';\n      }\n      if ($breakOnError) {\n          out += ' if (!' + ($nextValid)
+ ') break;';\n      }\n      out += ' }';\n      if ($breakOnError) {\n          out += ' else ' + ($nextValid) + ' =
true;';\n      }\n      out += ' }';\n      if ($breakOnError) {\n          out += ' if (' + ($nextValid) + ') {';\n
      }\n      $closingBraces += '};\n      }\n      var $pgMin = $pgSchema.minimum,\n          $pgMax =
$pgSchema.maximum;\n      if ($pgMin !== undefined || $pgMax !== undefined) {\n          out += ' var ' +
($valid) + ' = true;';\n          var $currErrSchemaPath = $errSchemaPath;\n          if ($pgMin !== undefined) {\n
              var $limit = $pgMin,\n                  $reason = 'minimum',\n                  $moreOrLess = 'less';\n
              out += ' ' + ($valid) + ' = pgPropCount' + ($lvl) + ' >= ' + ($pgMin) + ';\n          }\n          $errSchemaPath =
it.errSchemaPath + '/patternGroups/minimum';\n          out += ' if (!' + ($valid) + ') {';\n          var $$outStack
= $$outStack || [];\n          $$outStack.push(out);\n          out = "/* istanbul ignore else */\n          if
(it.createErrors !== false) {\n              out += ' { keyword: \'' + ('patternGroups') + '\', dataPath: (dataPath || '\') +
' + (it.errorPath) + ', schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ', params: { reason: \'' + ($reason)
+ '\', limit: ' + ($limit) + ', pattern: \'' + (it.util.escapeQuotes($pgProperty)) + '\'}';\n              if (it.opts.messages
!== false) {\n                  out += ', message: \'' + 'should NOT have ' + ($moreOrLess) + ' than ' + ($limit) + ' properties
matching pattern \'' + (it.util.escapeQuotes($pgProperty)) + '\'\'';\n              }\n              if (it.opts.verbose)
{\n                  out += ', schema: validate.schema' + ($schemaPath) + ', parentSchema: validate.schema' +
(it.schemaPath) + ', data: ' + ($data) + ';\n              }\n              out += ' }';\n          } else {\n              out += '
{\n          }\n          }\n          var __err = out;\n          out = $$outStack.pop();\n          if (!it.compositeRule &&
$breakOnError) { /* istanbul ignore if */\n              if (it.async) {\n                  out += ' throw new ValidationError(['
+ (__err) + ']);';\n              } else {\n                  out += ' validate.errors = [' + (__err) + ']; return false;';\n
              }\n          } else {\n              out += ' var err = ' + (__err) + '; if (vErrors === null) vErrors = [err]; else
vErrors.push(err); errors++;';\n          }\n          out += ' }';\n          if ($pgMax !== undefined) {\n
              out += ' else';\n          }\n          }\n          }\n          if ($pgMax !== undefined) {\n              var $limit = $pgMax,\n
                  $reason = 'maximum',\n                  $moreOrLess = 'more';\n              out += ' ' + ($valid) + ' = pgPropCount'
+ ($lvl) + ' <= ' + ($pgMax) + ';\n          }\n          $errSchemaPath = it.errSchemaPath + '/patternGroups/maximum';\n
          out += ' if (!' + ($valid) + ') {';\n          var $$outStack = $$outStack || [];\n          $$outStack.push(out);\n
          out = "/* istanbul ignore else */\n          if (it.createErrors !== false) {\n              out += ' { keyword: \'' + ('patternGroups')
+ '\', dataPath: (dataPath || '\') + ' + (it.errorPath) + ', schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ', params: { reason: \'' +
($reason) + '\', limit: ' + ($limit) + ', pattern: \'' + (it.util.escapeQuotes($pgProperty)) + '\'}';\n              if
(it.opts.messages !== false) {\n                  out += ', message: \'' + 'should NOT have ' +
($moreOrLess) + ' than ' + ($limit) + ' properties matching pattern \'' + (it.util.escapeQuotes($pgProperty)) + '\'\'';\n
              }\n              if (it.opts.verbose) {\n                  out += ', schema: validate.schema' + ($schemaPath) + ',
parentSchema: validate.schema' + (it.schemaPath) + ', data: ' + ($data) + ';\n              }\n              out += ' }';\n
          } else {\n              out += ' {}';\n          }\n          }\n          var __err = out;\n          out = $$outStack.pop();\n
          if (!it.compositeRule && $breakOnError) { /* istanbul ignore if */\n              if (it.async) {\n                  out += '
throw new ValidationError([' + (__err) + ']);';\n              } else {\n                  out += ' validate.errors = [' + (__err) +
']; return false;';\n              }\n          } else {\n              out += ' var err = ' + (__err) + '; if (vErrors === null)
vErrors = [err]; else vErrors.push(err); errors++;';\n          }\n          }\n          }\n          $errSchemaPath = $currErrSchemaPath;\n          if
($breakOnError) {\n              out += ' if (' + ($valid) + ') {';\n          }\n          $closingBraces += '};\n          }\n          }\n

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    }\n    }\n    }\n    }\n    if ($breakOnError) {\n      out += ' + ($closingBraces) + ' if (' + ($errs) + ' == errors) {';\n    }\n    out = it.util.cleanupCode(out);\n    return out;\n  }\n  }\n  }\n  }\n  WEBPACK FOOTER /\n  /\n  ..~/ajv/lib/dotjs/properties.js", "use strict";\n  module.exports = function generate_propertyNames(it, $keyword,\n  $ruleType) {\n    var out = ');\n    var $lvl = it.level;\n    var $dataLvl = it.dataLevel;\n    var $schema =\n    it.schema[$keyword];\n    var $schemaPath = it.schemaPath + it.util.getProperty($keyword);\n    var $errSchemaPath =\n    it.errSchemaPath + '/' + $keyword;\n    var $breakOnError = !it.opts.allErrors;\n    var $data = 'data' + ($dataLvl || '');\n    var $errs = 'errs_' + $lvl;\n    var $it = it.util.copy(it);\n    var $closingBraces = ');\n    $it.level++;\n    var $nextValid = 'valid' + $it.level;\n    if\n    (it.util.schemaHasRules($schema, it.RULES.all)) {\n      $it.schema = $schema;\n      $it.schemaPath = $schemaPath;\n      $it.errSchemaPath = $errSchemaPath;\n      var $key = 'key' + $lvl,\n        $idx = 'idx' + $lvl,\n        $i = 'i' + $lvl,\n        $invalidName = '\\'+ '$key' + '\\',\n        $dataNxt = $it.dataLevel = it.dataLevel + 1,\n        $nextData = 'data' +\n        $dataNxt,\n        $dataProperties = 'dataProperties' + $lvl,\n        $ownProperties = it.opts.ownProperties,\n        $currentBaseId = it.baseId;\n      out += ' var ' + ($errs) + ' = errors;';\n      if ($ownProperties) {\n        out += ' var '\n        ($dataProperties) + ' = undefined;';\n      }\n      if ($ownProperties) {\n        out += ' + ($dataProperties) + ' = '\n        ($dataProperties) + ' || Object.keys(' + ($data) + ');\n        for (var ' + ($idx) + '=0; ' + ($idx) + '<' + ($dataProperties) +\n        '.length; ' + ($idx) + '++) {\n          var ' + ($key) + ' = ' + ($dataProperties)\n          + '[' + ($idx) + '];\n        } else {\n          out += ' for (var ' + ($key) + ' in ' + ($data) + ') {';\n        }\n        out += ' var\n        startErrs' + ($lvl) + ' = errors;';\n        var $passData = $key;\n        var $wasComposite = it.compositeRule;\n        it.compositeRule = $it.compositeRule = true;\n        var $code = it.validate($it);\n        $it.baseId = $currentBaseId;\n        if\n        (it.util.varOccurrences($code, $nextData) < 2) {\n          out += ' + (it.util.varReplace($code, $nextData, $passData)) +\n          ';\n        } else {\n          out += ' var ' + ($nextData) + ' = ' + ($passData) + ';\n          ' + ($code) + ';\n        }\n        it.compositeRule\n        = $it.compositeRule = $wasComposite;\n        out += ' if (!(' + ($nextValid) + ')) {\n          for (var ' + ($i) + '=startErrs' + ($lvl)\n          + ';\n          ' + ($i) + '<errors;' + ($i) + '++) {\n            vErrors[' + ($i) + '].propertyName = ' + ($key) + ';\n          } var err = ';\n          /* istanbul\n          ignore else */\n          if (it.createErrors !== false) {\n            out += ' { keyword: \'' + ('propertyNames') + '\', dataPath:\n            (dataPath\n            || \\') + ' + (it.errorPath) + ', schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ', params: {\n            propertyName: \'' + ($invalidName) + '\\'};\n            if (it.opts.messages !== false) {\n              out += ', message:\n              \\\'property name \'' + ($invalidName) + '\\\' is invalid\\';\n            }\n            if (it.opts.verbose) {\n              out += ',\n              schema: validate.schema' + ($schemaPath) + ', parentSchema: validate.schema' + (it.schemaPath) + ', data: ' +\n              ($data) + ';\n            }\n            out += ' };\n          } else {\n            out += ' };\n          }\n          out += '; if (vErrors === null) vErrors =\n          [err]; else vErrors.push(err); errors++;';\n          if (!it.compositeRule && $breakOnError) { /* istanbul ignore if */\n            if (it.async) {\n              out += ' throw new ValidationError(vErrors);'\n            } else {\n              out += ' validate.errors =\n              vErrors; return false;';\n            }\n          }\n          }\n          if ($breakOnError) {\n            out += ' break;'\n          }\n          out += ' }';\n        }\n        if\n        ($breakOnError)\n        {\n          out += ' + ($closingBraces) + ' if (' + ($errs) + ' == errors) {';\n        }\n        out = it.util.cleanupCode(out);\n        return\n        out;\n      }\n    }\n  }\n  }\n  }\n  }\n  WEBPACK FOOTER /\n  /\n  ..~/ajv/lib/dotjs/propertyNames.js", "use strict";\n  module.exports =\n  function generate_required(it, $keyword, $ruleType) {\n    var out = ');\n    var $lvl = it.level;\n    var $dataLvl =\n    it.dataLevel;\n    var $schema = it.schema[$keyword];\n    var $schemaPath = it.schemaPath +\n    it.util.getProperty($keyword);\n    var $errSchemaPath = it.errSchemaPath + '/' + $keyword;\n    var $breakOnError =\n    !it.opts.allErrors;\n    var $data = 'data' + ($dataLvl || '');\n    var $valid = 'valid' + $lvl;\n    var $isData = it.opts.$data\n    && $schema && $schema.$data;\n    var $schemaValue;\n    if ($isData) {\n      out += ' var schema' + ($lvl) + ' = '\n      + (it.util.getData($schema.$data, $dataLvl, it.dataPathArr)) + ';\n      $schemaValue = 'schema' + $lvl;\n    } else {\n      $schemaValue = $schema;\n    }\n    var $vSchema = 'schema' + $lvl;\n    if (!$isData)\n    {\n      if ($schema.length < it.opts.loopRequired && it.schema.properties &&\n      Object.keys(it.schema.properties).length) {\n        var $required = [];\n        var arr1 = $schema;\n        if (arr1) {\n          var $property, i1 = -1,\n            l1 = arr1.length - 1;\n          while (i1 < l1) {\n            $property = arr1[i1 + 1];\n          }\n          var $propertySch = it.schema.properties[$property];\n          if (!$propertySch &&\n          it.util.schemaHasRules($propertySch, it.RULES.all)) {\n            $required[$required.length] = $property;\n          }\n        }\n      }\n    }\n  }\n}

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}\n    }\n    }\n } else {\n    var $required = $schema;\n    }\n }\n if ($isData || $required.length) {\n    var
$currentErrorPath = it.errorPath,\n    $loopRequired = $isData || $required.length >= it.opts.loopRequired,\n    $ownProperties = it.opts.ownProperties;\n    if ($breakOnError) {\n        out += ' var missing' + ($lvl) + ' ';;\n        if
($loopRequired) {\n            if (!$isData) {\n                out += ' var ' + ($vSchema) + ' = validate.schema'
+ ($schemaPath) + ' ';;\n            }\n            var $i = 'i' + $lvl,\n                $propertyPath = 'schema' + $lvl + '[' + $i + ']',\n                $missingProperty = '\\ ' + $propertyPath + ' \\';\n            if (it.opts._errorDataPathProperty) {\n                it.errorPath =
it.util.getPathExpr($currentErrorPath, $propertyPath, it.opts.jsonPointers);\n            }\n            out += ' var ' + ($valid) +
' = true;';\n            if ($isData) {\n                out += ' if (schema' + ($lvl) + ' === undefined) ' + ($valid) + ' = true; else if
(!Array.isArray(schema' + ($lvl) + ')) ' + ($valid) + ' = false; else {';\n            }\n            out += ' for (var ' + ($i) + ' = 0; ' +
($i) + ' < ' + ($vSchema) + '.length; ' + ($i) + '++) { ' + ($valid) + ' = ' + ($data) + '[' + ($vSchema) + '[' + ($i) + ']'
!== undefined';\n            if ($ownProperties) {\n                out += ' && Object.prototype.hasOwnProperty.call(' + ($data)
+ ', ' + ($vSchema) + '[' + ($i) + '])';\n            }\n            out += '; if (! ' + ($valid)
+ ') break; }';\n            if ($isData) {\n                out += ' }';\n            }\n            out += ' if (! ' + ($valid) + ') { ';;\n            var
$$outStack = $$outStack || [];\n            $$outStack.push(out);\n            out = "/* istanbul ignore else */\n            if
(it.createErrors !== false) {\n                out += ' { keyword: \'' + ('required') + '\', dataPath: (dataPath || '\\') + ' +
(it.errorPath) + ', schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ', params: { missingProperty: \'' +
($missingProperty) + '\\ ' }';\n                if (it.opts.messages !== false) {\n                    out += ', message: \'';\n                    if
(it.opts._errorDataPathProperty) {\n                        out += 'is a required property';\n                    } else {\n                        out +=
'should have required property \'' + ($missingProperty) + '\\';\n                    }\n                    out += '\\';\n                }\n            }
if (it.opts.verbose) {\n                out += ', schema: validate.schema' + ($schemaPath) +
', parentSchema: validate.schema' + (it.schemaPath) + ', data: ' + ($data) + '';\n            }\n            out += ' }';\n        }
else {\n            out += ' {}';\n        }\n        var __err = out;\n        out = $$outStack.pop();\n        if (!it.compositeRule
&& $breakOnError) { /* istanbul ignore if */\n            if (it.async) {\n                out += ' throw new ValidationError([' +
(__err) + ']);';\n            } else {\n                out += ' validate.errors = [' + (__err) + ']; return false;';\n            }\n        } else
{\n            out += ' var err = ' + (__err) + '; if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++;';\n        }
}\n        out += ' } else {';\n        } else {\n            out += ' if (';\n            var arr2 = $required;\n            if (arr2) {\n                var $propertyKey, $i = -1,\n                    l2 = arr2.length - 1;\n                while ($i < l2) {\n                    $propertyKey = arr2[$i ++
= 1];\n                    if ($i) {\n                        out += ' ||';\n                    }\n                    var $prop = it.util.getProperty($propertyKey),\n                        $useData = $data + $prop;\n                    out += ' (
' + ($useData) + ' === undefined';\n                    if ($ownProperties) {\n                        out += ' || !
Object.prototype.hasOwnProperty.call(' + ($data) + ', \'' + (it.util.escapeQuotes($propertyKey)) + '\\)';\n                    }\n                    out += ') && (missing' + ($lvl) + ' = ' + (it.util.toQuotedString(it.opts.jsonPointers ? $propertyKey : $prop)) +
')';\n                }\n            }\n            out += ') {';\n            var $propertyPath = 'missing' + $lvl,\n                $missingProperty = '\\
' + $propertyPath + ' \\';\n            if (it.opts._errorDataPathProperty) {\n                it.errorPath = it.opts.jsonPointers ?
it.util.getPathExpr($currentErrorPath, $propertyPath, true) : $currentErrorPath + ' + ' + $propertyPath;\n            }\n            var $$outStack = $$outStack || [];\n            $$outStack.push(out);\n            out = "/* istanbul ignore else */\n            if
(it.createErrors !== false) {\n                out += ' { keyword: \'' + ('required') + '\', dataPath: (dataPath || '\\') + ' +
(it.errorPath) + ', schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ', params: { missingProperty: \'' +
($missingProperty) + '\\ ' }';\n                if (it.opts.messages !== false) {\n                    out += ', message: \'';\n                    if
(it.opts._errorDataPathProperty) {\n                        out += 'is a required property';\n                    } else {\n                        out +=
'should have required property \'' + ($missingProperty) + '\\';\n                    }\n                    out += '\\';\n                }\n            }
if (it.opts.verbose) {\n                out += ', schema: validate.schema' + ($schemaPath) + ', parentSchema:
validate.schema' + (it.schemaPath) + ', data: ' + ($data) + '';\n            }\n            out += ' }';\n        } else {\n            out
+= ' {}';\n        }\n        var __err = out;\n        out = $$outStack.pop();\n        if (!it.compositeRule
&& $breakOnError) { /* istanbul ignore if */\n            if (it.async) {\n                out += ' throw new ValidationError([' +
(__err) + ']);';\n            } else {\n                out += ' validate.errors = [' + (__err) + ']; return false;';\n            }\n        } else
{\n            out += ' var err = ' + (__err) + '; if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++;';\n        }
}\n        out += ' } else {';\n        }\n        } else {\n            if ($loopRequired) {\n                if (!$isData) {\n                    out += ' var '

```



```
(it.util.getData($schema.$data, $dataLvl, it.dataPathArr)) + ' ';
    $schemaValue = 'schema' + $lvl;
  } else {
    $schemaValue = $schema;
  }
  if (($schema || $isData) && it.opts.uniqueItems !== false) {
    if ($isData) {
      out += ' var ' + ($valid) + ' ';
      if (' + ($schemaValue) + ' === false || ' + ($schemaValue) + ' === undefined' + ($valid) + ' = true;
      else if (typeof ' + ($schemaValue) + ' !== \'boolean\') ' + ($valid) + ' = false;
      else {
        out += ' var ' + ($valid) + ' = true;
        if (' + ($data) + '.length > 1) {
          var i = ' + ($data) + '.length, j;
          outer: for (; i--;) {
            for (j = i; j--;) {
              if (equal(' + ($data) + '[' + i, ' + ($data) + '[' + j])) {
                ' + ($valid) + ' = false;
                break outer;
              }
            }
          };
          if ($isData) {
            out += ' ' + ($valid) + ' ';
            out += ' if (! ' + ($valid) + ') {
              var $$outStack = $$outStack || [];
              $$outStack.push(out);
              out = '/* istanbul ignore else */
              if (it.createErrors !== false) {
                out += ' { keyword: \'' + ('uniqueItems') + '\', dataPath: (dataPath || '\') + ' + (it.errorPath) + ', schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ', params: { i: i, j: j } ';
                if (it.opts.messages !== false) {
                  out += ', message: \\'should NOT have duplicate items (items ##\'' + j + '\' and \'' + i + '\' are identical)\'';
                }
                if (it.opts.verbose) {
                  out += ', schema: ' + ($schema) + ' ';
                  if ($isData) {
                    out += 'validate.schema' + ($schemaPath);
                  }
                } else {
                  out += ' + ($schema)';
                }
              }
              out += ' , parentSchema: validate.schema' + (it.schemaPath) + ', data: ' + ($data) + ' ';
            }
            out += ' } ';
          } else {
            out += ' { } ';
          }
          var __err = out;
          out = $$outStack.pop();
          if (!it.compositeRule && $breakOnError) {
            /* istanbul ignore if */
            if (it.async) {
              out += ' throw new ValidationError([' + (__err) + ']); ';
            } else {
              out += ' validate.errors = [' + (__err) + ']; return false; ';
            }
          } else {
            out += ' var err = ' + (__err) + '; if (vErrors === null) vErrors = [err]; else vErrors.push(err); errors++; ';
          }
          if ($breakOnError) {
            out += ' else { ' + ($valid) + ' } ';
          } else {
            if ($breakOnError) {
              out += ' if (true) { ' + ($valid) + ' } ';
            }
            return out;
          }
          return out;
        }
      }
    }
  }
  return out;
}

// WEBPACK FOOTER //
// ./~/ajv/lib/dotjs/uniqueItems.js, "use strict";
var KEYWORDS = [
  'multipleOf',
  'maximum',
  'exclusiveMaximum',
  'minimum',
  'exclusiveMinimum',
  'maxLength',
  'minLength',
  'pattern',
  'additionalItems',
  'maxItems',
  'minItems',
  'uniqueItems',
  'maxProperties',
  'minProperties',
  'required',
  'additionalProperties',
  'enum',
  'format',
  'const'
];
module.exports = function (metaSchema, keywordsJsonPointers) {
  for (var i=0; i<keywordsJsonPointers.length; i++) {
    metaSchema = JSON.parse(JSON.stringify(metaSchema));
    var segments = keywordsJsonPointers[i].split('/');
    var keywords = metaSchema;
    var j;
    for (j=1; j<segments.length; j++)
      keywords = keywords[segments[j]];
    for (j=0; j<KEYWORDS.length; j++) {
      var key = KEYWORDS[j];
      var schema = keywords[key];
      if (schema) {
        keywords[key] = {
          anyOf: [
            schema,
            { $ref: 'https://raw.githubusercontent.com/epoberezkin/ajv/master/lib/refs/$data.json#' } ]
        };
      }
    }
    return metaSchema;
  }
};

// WEBPACK FOOTER //
// ./~/ajv/lib/$data.js, "use strict";
var META_SCHEMA_ID = 'http://json-schema.org/draft-06/schema';
module.exports = function (ajv) {
  var defaultMeta = ajv._opts.defaultMeta;
  var metaSchemaRef = typeof defaultMeta == 'string' ? { $ref: defaultMeta } : defaultMeta;
  ajv.getSchema(META_SCHEMA_ID) ? { $ref: META_SCHEMA_ID } : {};
  ajv.addKeyword('patternGroups', {
    // implemented in properties.jst
    metaSchema: {
      type: 'object',
      additionalProperties: {
        type: 'object',
        required: ['schema'],
        properties: {
          maximum: {
            type: 'integer',
            minimum: 0
          },
          minimum: {
            type: 'integer',
            minimum: 0
          },
          schema: metaSchemaRef
        },
        additionalProperties: false
      }
    }
  });
  ajv.RULES.all.properties.implements.push('patternGroups');
};

// WEBPACK FOOTER //
// ./~/ajv/lib/patternGroups.js, "use strict";
var MissingRefError = require('./error_classes').MissingRef;
module.exports = compileAsync;
/**
 * Creates validating function for passed schema with asynchronous loading of missing schemas.
 * `loadSchema` option should be a function that accepts schema uri and returns promise that resolves with the schema.
 * @this Ajv
 * @param {Object} schema schema object
 * @param {Object} meta optional true to compile meta-schema; this parameter can be skipped
 * @param {Function} callback an optional node-style callback, it is called with 2 parameters: error (or null) and validating function.
 * @return {Promise} promise that resolves with a validating function.
 */

```



```

compileAsync(schema, meta, callback) {\n /* eslint no-shadow: 0 *\n /* global Promise *\n /* jshint validthis:
true *\n var self = this;\n if (typeof this._opts.loadSchema !== 'function')\n
  throw new Error('options.loadSchema should be a function');\n\n if (typeof meta === 'function') {\n  callback =
meta;\n  meta = undefined;\n }\n\n var p = loadMetaSchemaOf(schema).then(function () {\n  var schemaObj =
self._addSchema(schema, undefined, meta);\n  return schemaObj.validate || _compileAsync(schemaObj);\n });\n\n if (callback) {\n  p.then(\n    function(v) { callback(null, v); },\n    callback\n  );\n }\n\n return p;\n\n\n function loadMetaSchemaOf(sch) {\n  var $schema = sch.$schema;\n  return $schema &&
!self.getSchema($schema)\n    ? compileAsync.call(self, { $ref: $schema }, true)\n    : Promise.resolve();\n }\n\n\n function _compileAsync(schemaObj) {\n  try { return self._compile(schemaObj); }\n  catch(e) {\n  if
(e instanceof MissingRefError) return loadMissingSchema(e);\n  throw e;\n }\n\n\n function
loadMissingSchema(e) {\n  var ref = e.missingSchema;\n  if (added(ref)) throw new Error('Schema
' + ref + ' is loaded but ' + e.missingRef + ' cannot be resolved');\n\n  var schemaPromise =
self._loadingSchemas[ref];\n  if (!schemaPromise) {\n    schemaPromise = self._loadingSchemas[ref] =
self._opts.loadSchema(ref);\n    schemaPromise.then(removePromise, removePromise);\n  }\n\n  return
schemaPromise.then(function (sch) {\n    if (!added(ref)) {\n      return loadMetaSchemaOf(sch).then(function
() {\n        if (!added(ref)) self.addSchema(sch, ref, undefined, meta);\n      });\n    }\n  }).then(function()
{\n    return _compileAsync(schemaObj);\n  });\n\n  function removePromise() {\n    delete
self._loadingSchemas[ref];\n  }\n\n  function added(ref) {\n    return self._refs[ref] || self._schemas[ref];\n
}\n  }\n }\n }\n\n\n// WEBPACK FOOTER //\n\n ..~/ajv/lib/compile/async.js", "use strict";\n\n\nvar IDENTIFIER
= /^[a-z_$][a-z0-9_$-]*$/i;\n\nvar customRuleCode = require('./dotjs/custom');\n\nmodule.exports
= {\n  add: addKeyword,\n  get: getKeyword,\n  remove: removeKeyword\n};\n\n\n**\n * Define custom keyword\n
* @this Ajv\n * @param {String} keyword custom keyword, should be unique (including different from all
standard, custom and macro keywords).\n * @param {Object} definition keyword definition object with properties
`type` (type(s) which the keyword applies to), `validate` or `compile`\n *\n\nfunction addKeyword(keyword,
definition) {\n /* jshint validthis: true *\n /* eslint no-shadow: 0 *\n var RULES = this.RULES;\n\n if
(RULES.keywords[keyword])\n  throw new Error('Keyword ' + keyword + ' is already defined');\n\n if
(!IDENTIFIER.test(keyword))\n  throw new Error('Keyword ' + keyword + ' is not a valid identifier');\n\n if
(definition) {\n  if (definition.macro && definition.valid !== undefined)\n    throw new Error('"valid" option
cannot be used with macro keywords');\n  var dataType = definition.type;\n  if (Array.isArray(dataType)) {\n
  var i, len = dataType.length;\n  for (i=0; i<len; i++) checkDataType(dataType[i]);\n  for (i=0; i<len; i++)
_addRule(keyword, dataType[i], definition);\n  } else {\n  if (dataType) checkDataType(dataType);\n  _addRule(keyword, dataType, definition);\n  }\n\n  var $data = definition.$data === true && this._opts.$data;\n
if ($data && !definition.validate)\n    throw new Error('$data support: "validate" function is not defined');\n\n
var metaSchema = definition.metaSchema;\n  if (metaSchema) {\n  if ($data) {\n    metaSchema = {\n
  anyOf: [\n    metaSchema,\n    { $ref:
'https://raw.githubusercontent.com/epoberezkin/ajv/master/lib/refs/$data.json#' }\n  ]\n  };\n  }\n\n
  definition.validateSchema = this.compile(metaSchema, true);\n  }\n }\n\n\n RULES.keywords[keyword] =
RULES.all[keyword] = true;\n\n\n function _addRule(keyword, dataType, definition) {\n  var ruleGroup;\n  for
(var i=0; i<RULES.length;\n  i++) {\n  var rg = RULES[i];\n  if (rg.type === dataType) {\n    ruleGroup = rg;\n    break;\n  }\n }\n\n\n if (!ruleGroup) {\n  ruleGroup = { type: dataType, rules: []};\n  RULES.push(ruleGroup);\n }\n\n var rule
= {\n  keyword: keyword,\n  definition: definition,\n  custom: true,\n  code: customRuleCode,\n
implements: definition.implements\n }; \n  ruleGroup.rules.push(rule);\n  RULES.custom[keyword] = rule;\n
}\n\n\n function checkDataType(dataType) {\n  if (!RULES.types[dataType]) throw new Error('Unknown type ' +
dataType);\n }\n }\n\n\n**\n * Get keyword\n * @this Ajv\n * @param {String} keyword pre-defined or custom
keyword.\n * @return {Object|Boolean} custom keyword definition, `true` if it is a predefined keyword, `false`
otherwise.\n *\n\nfunction getKeyword(keyword) {\n /* jshint validthis: true *\n var rule =
this.RULES.custom[keyword];\n  return rule ? rule.definition : this.RULES.keywords[keyword]

```

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|| false;\n}\n\n\n/**\n * Remove keyword\n * @this Ajv\n * @param {String} keyword pre-defined or custom
keyword.\n */\nfunction removeKeyword(keyword) {\n /* jshint validthis: true *\n var RULES = this.RULES;\n
delete RULES.keywords[keyword];\n delete RULES.all[keyword];\n delete RULES.custom[keyword];\n for (var
i=0; i<RULES.length; i++) {\n var rules = RULES[i].rules;\n for (var j=0; j<rules.length; j++) {\n if
(rules[j].keyword == keyword) {\n rules.splice(j, 1);\n break;\n }\n }\n }\n}\n\n\n\n// WEBPACK
FOOTER /\n// ..~/ajv/lib/keyword.js","use strict";\nmodule.exports = function generate_custom(it, $keyword,
$ruleType) {\n var out = '';\n var $lvl = it.level;\n var $dataLvl = it.dataLevel;\n var $schema =
it.schema[$keyword];\n var $schemaPath = it.schemaPath + it.util.getProperty($keyword);\n var $errSchemaPath =
it.errSchemaPath + '/' + $keyword;\n var $breakOnError = !it.opts.allErrors;\n var $errorKeyword;\n var
$data = 'data' + ($dataLvl || '');\n var $valid = 'valid' + $lvl;\n var $errs = 'errs_' + $lvl;\n var $isData =
it.opts.$data && $schema && $schema.$data,\n $schemaValue;\n if ($isData) {\n out += ' var schema' + ($lvl)
+ ' = ' + (it.util.getData($schema.$data, $dataLvl, it.dataPathArr)) + ' '; }\n $schemaValue = 'schema' + $lvl;\n }
else {\n $schemaValue = $schema;\n }\n var $rule = this,\n $definition = 'definition' + $lvl,\n $rDef =
$rule.definition,\n $closingBraces = '';\n var $compile, $inline, $macro, $ruleValidate, $validateCode;\n if
($isData && $rDef.$data) {\n $validateCode = 'keywordValidate' + $lvl;\n var $validateSchema =
$rDef.validateSchema;\n out += ' var ' + ($definition) + ' = RULES.custom[\\'' + ($keyword) + '\\'].definition; var '
+ ($validateCode) + ' = ' + ($definition) + '.validate;'\n } else {\n $ruleValidate = it.useCustomRule($rule,
$schema, it.schema, it);\n if (!$ruleValidate) return;\n $schemaValue = 'validate.schema'
+ $schemaPath;\n $validateCode = $ruleValidate.code;\n $compile = $rDef.compile;\n $inline =
$rDef.inline;\n $macro = $rDef.macro;\n }\n var $ruleErrs = $validateCode + '.errors',\n $i = 'i' + $lvl,\n
$ruleErr = 'ruleErr' + $lvl,\n $asyncKeyword = $rDef.async;\n if ($asyncKeyword && !it.async) throw new
Error('async keyword in sync schema');\n if (!($inline || $macro)) {\n out += " + ($ruleErrs) + ' = null;'\n }\n out
+= 'var ' + ($errs) + ' = errors;var ' + ($valid) + ';\n if ($isData && $rDef.$data) {\n $closingBraces += '};\n
out += 'if (' + ($schemaValue) + ' === undefined) { ' + ($valid) + ' = true; } else { '\n if ($validateSchema) {\n
$closingBraces += '};\n out += ' ' + ($valid) + ' = ' + ($definition) + '.validateSchema(' + ($schemaValue) + '); if
(' + ($valid) + ') { '\n }\n }\n if ($inline) {\n if ($rDef.statements) {\n out += ' ' + ($ruleValidate.validate) +
';\n } else {\n out +=
' ' + ($valid) + ' = ' + ($ruleValidate.validate) + ' '; }\n }\n } else if ($macro) {\n var $it = it.util.copy(it);\n var
$closingBraces = '';\n $it.level++;\n var $nextValid = 'valid' + $it.level;\n $it.schema =
$ruleValidate.validate;\n $it.schemaPath = '';\n var $wasComposite = it.compositeRule;\n it.compositeRule =
$it.compositeRule = true;\n var $code = it.validate($it).replace(/validate\\.schema/g, $validateCode);\n
it.compositeRule = $it.compositeRule = $wasComposite;\n out += ' ' + ($code);\n } else {\n var $$outStack =
$outStack || [];\n $$outStack.push(out);\n out = '';\n out += ' ' + ($validateCode) + '.call( '\n if
(it.opts.passContext) {\n out += 'this';\n } else {\n out += 'self';\n }\n if ($compile || $rDef.schema ===
false) {\n out += ', ' + ($data) + '';\n } else {\n out += ', ' + ($schemaValue) + ', ' + ($data) + ',
validate.schema' + (it.schemaPath) + '';\n }\n out +=
', (dataPath || \\''');\n if (it.errorPath !== '') {\n out += ' ' + (it.errorPath);\n }\n var $parentData =
$dataLvl ? 'data' + (($dataLvl - 1) || '') : 'parentData',\n $parentDataProperty = $dataLvl ?
it.dataPathArr[$dataLvl] : 'parentDataProperty';\n out += ', ' + ($parentData) + ', ' + ($parentDataProperty) + ',
rootData )';\n var def_callRuleValidate = out;\n out = $$outStack.pop();\n if ($rDef.errors === false) {\n
out += ' ' + ($valid) + ' =';\n if ($asyncKeyword) {\n out += " + (it.yieldAwait);\n }\n out += " +
(def_callRuleValidate) + '';\n } else {\n if ($asyncKeyword) {\n $ruleErrs = 'customErrors' + $lvl;\n
out += ' var ' + ($ruleErrs) + ' = null; try { ' + ($valid) + ' = ' + (it.yieldAwait) + (def_callRuleValidate) + ' '; } catch
(e) { ' + ($valid) + ' = false; if (e instanceof ValidationError) ' + ($ruleErrs) + ' = e.errors; else throw e; } '\n }
else {\n out += '
' + ($ruleErrs) + ' = null; ' + ($valid) + ' = ' + (def_callRuleValidate) + '';\n }\n }\n }\n if ($rDef.modifying)
{\n out += 'if (' + ($parentData) + ') ' + ($data) + ' = ' + ($parentData) + '[' + ($parentDataProperty) + '];'\n }\n
out += " + ($closingBraces);\n if ($rDef.valid) {\n if ($breakOnError) {\n out += 'if (true) { '\n }\n } else

```

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{\n  out += ' if (';\n  if ($rDef.valid === undefined) {\n    out += '!';\n    if ($macro) {\n      out += " +
($nextValid);\n    } else {\n      out += " + ($valid);\n    }\n  } else {\n    out += "' + (!$rDef.valid) + '";\n  }\n
out += ') {';\n  $errorKeyword = $rule.keyword;\n  var $$outStack = $$outStack || [];\n  $$outStack.push(out);\n
  out = ";\n  var $$outStack = $$outStack || [];\n  $$outStack.push(out);\n  out = "/* istanbul ignore else */\n  if
(it.createErrors !== false) {\n    out += ' { keyword: \'' + ($errorKeyword || 'custom') + '\', dataPath:
(dataPath || \'\') + ' + (it.errorPath) + ', schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ', params: {
keyword: \'' + ($rule.keyword) + '\' }';\n    if (it.opts.messages !== false) {\n      out += ', message: \\'should pass
\' + ($rule.keyword) + \' keyword validation\'';\n    }\n    if (it.opts.verbose) {\n      out += ', schema:
validate.schema' + ($schemaPath) + ', parentSchema: validate.schema' + (it.schemaPath) + ', data: ' + ($data) + '';\n
    }\n    out += ' }';\n  } else {\n    out += ' { }';\n  }\n  var __err = out;\n  out = $$outStack.pop();\n  if
(!it.compositeRule && $breakOnError) { /* istanbul ignore if */\n    if (it.async) {\n      out += ' throw new
ValidationError([' + (__err) + ']);';\n    } else {\n      out += ' validate.errors = [' + (__err) + ']; return false;';\n
    }\n  } else {\n    out += ' var err = ' + (__err) + '; if (vErrors === null) vErrors = [err]; else vErrors.push(err);
errors++;';\n  }\n  }\n  var def_customError = out;\n  out = $$outStack.pop();\n  if ($inline) {\n    if ($rDef.errors) {\n      if
($rDef.errors !== 'full') {\n        out += ' for (var ' + ($i) + ' = ' + ($errs) + '; ' + ($i) + ' < errors; ' + ($i) + '++) { var ' +
($ruleErr) + ' = vErrors[' + ($i) + ']; if (' + ($ruleErr) + '.dataPath === undefined) ' + ($ruleErr) + '.dataPath =
(dataPath || \'\') + ' + (it.errorPath) + '; if (' + ($ruleErr) + '.schemaPath === undefined) { ' + ($ruleErr) +
'.schemaPath = \'' + ($errSchemaPath) + '\'; }';\n        if (it.opts.verbose) {\n          out += ' ' + ($ruleErr) +
'.schema = ' + ($schemaValue) + '; ' + ($ruleErr) + '.data = ' + ($data) + ';';\n        }\n        out += ' }';\n      }\n
    } else {\n      if ($rDef.errors === false) {\n        out += ' ' + (def_customError) + '';\n      } else {\n        out += '
if (' + ($errs) + ' === errors) { ' + (def_customError) + ' } else { for (var ' + ($i) + ' = ' + ($errs) +
'; ' + ($i) + ' < errors; ' + ($i) + '++) { var ' + ($ruleErr) + ' = vErrors[' + ($i) + ']; if (' + ($ruleErr) + '.dataPath ===
undefined) ' + ($ruleErr) + '.dataPath = (dataPath || \'\') + ' + (it.errorPath) + '; if (' + ($ruleErr) + '.schemaPath ===
undefined) { ' + ($ruleErr) + '.schemaPath = \'' + ($errSchemaPath) + '\'; }';\n        if (it.opts.verbose) {\n          out += ' ' + ($ruleErr) + '.schema = ' + ($schemaValue) + '; ' + ($ruleErr) + '.data = ' + ($data) + ';';\n
        }\n        out += ' } }';\n      }\n    }\n  } else if ($macro) {\n    out += ' var err = '/* istanbul ignore else */\n    if
(it.createErrors !== false) {\n      out += ' { keyword: \'' + ($errorKeyword || 'custom') + '\', dataPath: (dataPath ||
\') + ' + (it.errorPath) + ', schemaPath: ' + (it.util.toQuotedString($errSchemaPath)) + ', params: { keyword: \'' +
($rule.keyword) + '\' }';\n      if (it.opts.messages !== false) {\n        out += ', message: \\'should
pass \'' + ($rule.keyword) + \' keyword validation\'';\n      }\n      if (it.opts.verbose) {\n        out += ', schema:
validate.schema' + ($schemaPath) + ', parentSchema: validate.schema' + (it.schemaPath) + ', data: ' + ($data) + '';\n
      }\n      out += ' }';\n    } else {\n      out += ' { }';\n    }\n    out += '; if (vErrors === null) vErrors = [err];
else vErrors.push(err); errors++;';\n    if (!it.compositeRule && $breakOnError) { /* istanbul ignore if */\n      if
(it.async) {\n        out += ' throw new ValidationError(vErrors);';\n      } else {\n        out += ' validate.errors =
vErrors; return false;';\n      }\n    }\n  } else {\n    if ($rDef.errors === false) {\n      out += ' ' +
(def_customError) + '';\n    } else {\n      out += ' if (Array.isArray(' + ($ruleErrs) + ')) { if (vErrors === null)
vErrors = ' + ($ruleErrs) + '; else vErrors = vErrors.concat(' + ($ruleErrs) + '); errors = vErrors.length; for
(var ' + ($i) + ' = ' + ($errs) + '; ' + ($i) + ' < errors; ' + ($i) + '++) { var ' + ($ruleErr) + ' = vErrors[' + ($i) + ']; if (' +
($ruleErr) + '.dataPath === undefined) ' + ($ruleErr) + '.dataPath = (dataPath || \'\') + ' + (it.errorPath) + '; ' +
($ruleErr) + '.schemaPath = \'' + ($errSchemaPath) + '\';';\n      if (it.opts.verbose) {\n        out += ' ' + ($ruleErr)
+ '.schema = ' + ($schemaValue) + '; ' + ($ruleErr) + '.data = ' + ($data) + ';';\n      }\n      out += ' } } else { ' +
(def_customError) + ' }';\n    }\n  }\n  out += ' }';\n  if ($breakOnError) {\n    out += ' else {';\n  }\n  }\n
return out;\n}\n\n\n\n// WEBPACK FOOTER //\n\n../~/ajv/lib/dotjs/custom.js", "module.exports =
{"$schema": "http://json-schema.org/draft-06/schema#", "$id": "https://raw.githubusercontent.com/epoberezkin/ajv/master/lib/refs/$data.json#", "description": "Meta-schema for $data reference (JSON-schema extension proposal)", "type": "object", "required": ["$data"], "properties": {"$data": {"type": "string"}, "anyOf": [{"for

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paddingLeft: 6,\n paddingRight: 6,\n fontWeight: \"bold\", \n }; \n return (\n <div key={props.index}
className={props.className}>\n <div className={props.hasToolbar ? \"col-xs-9\" : \"col-xs-12\"}>\n
{props.children}\n </div>\n {props.hasToolbar && (\n <div className=\"col-xs-3 array-item-
toolbox\">\n <div\n className=\"btn-group\" \n style={{ display: \"flex\", justifyContent:
\"space-around\" }}>\n {props.hasMoveUp || props.hasMoveDown} && (\n <IconBtn\n
icon=\"arrow-up\" \n className=\"array-item-move-up\" \n
tabIndex=\"-1\" \n style={btnStyle} \n disabled={props.disabled || props.readonly ||
!props.hasMoveUp} \n onClick={props.onReorderClick(props.index, props.index - 1)} \n />\n
)} \n {props.hasMoveUp || props.hasMoveDown} && (\n <IconBtn\n icon=\"arrow-
down\" \n className=\"array-item-move-down\" \n tabIndex=\"-1\" \n style={btnStyle} \n
disabled={\n props.disabled || props.readonly || !props.hasMoveDown \n } \n
onClick={props.onReorderClick(props.index, props.index + 1)} \n />\n ) \n ) \n
{props.hasRemove && (\n <IconBtn\n type=\"danger\" \n icon=\"remove\" \n
className=\"array-item-remove\" \n tabIndex=\"-1\" \n style={btnStyle} \n
disabled={props.disabled
|| props.readonly} \n onClick={props.onDropIndexClick(props.index)} \n />\n ) \n
</div>\n </div>\n ) \n </div>\n ); \n \n \n function DefaultFixedArrayFieldTemplate(props) {\n return (\n
<fieldset className={props.className}>\n <ArrayFieldTitle\n key={`array-field-title-
${props.idSchema.$id}`}\n TitleField={props.TitleField}\n idSchema={props.idSchema}\n
title={props.uiSchema[\"ui:title\"] || props.title}\n required={props.required}\n />\n
{props.uiSchema[\"ui:description\"] || props.schema.description} && (\n <div\n className=\"field-
description\" \n key={`field-description-${props.idSchema.$id}`}\n {props.uiSchema[\"ui:description\"]
|| props.schema.description}\n </div>\n ) \n <div\n className=\"row array-item-list\" \n
key={`array-item-list-${props.idSchema.$id}`}\n {props.items && props.items.map(DefaultArrayItem)} \n
</div>\n {props.canAdd && (\n <AddButton\n onClick={props.onAddClick}\n
disabled={props.disabled || props.readonly}\n />\n ) \n </fieldset>\n ); \n \n \n function
DefaultNormalArrayFieldTemplate(props) {\n return (\n <fieldset className={props.className}>\n
<ArrayFieldTitle\n key={`array-field-title-${props.idSchema.$id}`}\n TitleField={props.TitleField}\n
idSchema={props.idSchema}\n title={props.uiSchema[\"ui:title\"] || props.title}\n
required={props.required}\n />\n {props.uiSchema[\"ui:description\"] || props.schema.description} && (\n
<ArrayFieldDescription\n key={`array-field-description-${props.idSchema.$id}`}\n
DescriptionField={props.DescriptionField}\n idSchema={props.idSchema}\n description={\n
props.uiSchema[\"ui:description\"] || props.schema.description\n } \n />\n
)} \n <div\n className=\"row array-item-list\" \n key={`array-item-list-${props.idSchema.$id}`}\n
{props.items && props.items.map(p => DefaultArrayItem(p))}\n </div>\n {props.canAdd && (\n
<AddButton\n onClick={props.onAddClick}\n disabled={props.disabled || props.readonly}\n />\n
)} \n </fieldset>\n ); \n \n \n class ArrayField extends Component {\n static defaultProps = {\n uiSchema: {}, \n
formData: [], \n idSchema: {}, \n required: false, \n disabled: false, \n readonly: false, \n autofocus: false, \n
}; \n \n get itemTitle() {\n const { schema } = this.props; \n return schema.items.title || schema.items.description ||
\"Item\"; \n } \n \n isItemRequired(itemSchema) {\n if (Array.isArray(itemSchema.type)) {\n // While we don't
yet support composite/nullable jsonschema types, it's \n // future-proof to check for requirement against these. \n
return !itemSchema.type.includes(\"null\"); \n } \n // All non-null array item types are inherently required by design \n
return itemSchema.type !== \"null\"; \n } \n \n canAddItem(formItems) {\n const { schema, uiSchema } = this.props; \n let {
addable } =
getUiOptions(uiSchema); \n if (addable !== false) {\n // if ui:options.addable was not explicitly set to false, we
can add \n // another item if we have not exceeded maxItems yet \n if (schema.maxItems !== undefined) {\n
addable = formItems.length < schema.maxItems; \n } else {\n addable = true; \n } \n } \n return
addable; \n } \n \n onAddClick = event => {\n event.preventDefault(); \n const { schema, formData, registry =

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getDefaultRegistry() } = this.props;\n  const { definitions } = registry;\n  let itemSchema = schema.items;\n  if (isFixedItems(schema) && allowAdditionalItems(schema)) {\n    itemSchema = schema.additionalItems;\n  }\n  this.props.onChange(\n    [...formData, getDefaultFormState(itemSchema, undefined, definitions)],\n    { validate: false }\n  );\n};\n\n onDropIndexClick = index => {\n  return event => {\n    if (event) {\n      event.preventDefault();\n    }\n    const { formData, onChange } = this.props;\n    // refs #195: revalidate to ensure properly reindexing errors\n    onChange(formData.filter((_, i) => i !== index), { validate: true });\n  }; \n};\n\n onReorderClick = (index, newIndex) => {\n  return event => {\n    if (event) {\n      event.preventDefault();\n      event.target.blur();\n    }\n    const { formData, onChange } = this.props;\n    onChange(\n      formData.map((item, i) => {\n        if (i === newIndex) {\n          return formData[index];\n        } else if (i === index) {\n          return formData[newIndex];\n        } else {\n          return item;\n        }\n      }),\n      { validate: true }\n    );\n  }; \n};\n\n onChangeForIndex = index => {\n  return value => {\n    const { formData, onChange } = this.props;\n    const newFormData = formData.map((item, i) => {\n      // We need to treat undefined items as nulls to have validation.\n      // See https://github.com/tdegrun/jsonschema/issues/206\n      const jsonValue = typeof value === \"undefined\" ? null : value;\n      return index === i ? jsonValue : item;\n    });\n    onChange(newFormData, { validate: false });\n  }; \n};\n\n onSelectChange = value => {\n  this.props.onChange(value, { validate: false });\n};\n\n render() {\n  const {\n    schema,\n    uiSchema,\n    idSchema,\n    registry = getDefaultRegistry(),\n  } = this.props;\n  const { definitions } = registry;\n  if (!schema.hasOwnProperty(\"items\")) {\n    return (\n      <UnsupportedField\n        schema={schema}\n        idSchema={idSchema}\n        reason=\"Missing items definition\"\n      />\n    );\n  }\n  if (isFixedItems(schema)) {\n    return this.renderFixedArray();\n  }\n  if (isFilesArray(schema, uiSchema, definitions)) {\n    return this.renderFiles();\n  }\n  if (isMultiSelect(schema, definitions)) {\n    return this.renderMultiSelect();\n  }\n  return this.renderNormalArray();\n}\n\n renderNormalArray() {\n  const {\n    schema,\n    uiSchema,\n    formData,\n    errorSchema,\n    idSchema,\n    name,\n    required,\n    disabled,\n    readonly,\n    autofocus,\n    registry = getDefaultRegistry(),\n    formContext,\n    onBlur,\n    onFocus,\n  } = this.props;\n  const title = schema.title === undefined ? name : schema.title;\n  const { ArrayFieldTemplate, definitions, fields } = registry;\n  const { TitleField, DescriptionField } = fields;\n  const itemsSchema = retrieveSchema(schema.items, definitions);\n  const arrayProps = {\n    canAdd: this.canAddItem(formData),\n    items: formData.map((item, index) => {\n      const itemSchema = retrieveSchema(schema.items, definitions, item);\n      const itemErrorSchema = errorSchema ? errorSchema[index] : undefined;\n      const itemIdPrefix = idSchema.$id + \"_\" + index;\n      const itemIdSchema = toIdSchema(\n        itemSchema,\n        itemIdPrefix,\n        definitions,\n        item\n      );\n      return this.renderArrayFieldItem({\n        index,\n        canMoveUp: index > 0,\n        canMoveDown: index < formData.length - 1,\n        itemSchema: itemSchema,\n        itemIdSchema,\n        itemErrorSchema,\n        itemData: item,\n        itemUiSchema: uiSchema.items,\n        autofocus: autofocus && index === 0,\n        onBlur,\n        onFocus,\n      });\n    }),\n    className: `field field-array field-array-of-${itemsSchema.type}`,\n    DescriptionField,\n    disabled,\n    idSchema,\n    uiSchema,\n    onAddClick: this.onAddClick,\n    readonly,\n    required,\n    schema,\n    title,\n    TitleField,\n    formContext,\n    formData,\n  };\n  // Check if a custom render function was passed in\n  const Component = ArrayFieldTemplate || DefaultNormalArrayFieldTemplate;\n  return <Component {...arrayProps} />;\n}\n\n renderMultiSelect() {\n  const {\n    schema,\n    idSchema,\n    uiSchema,\n    formData,\n    disabled,\n    readonly,\n    autofocus,\n    onBlur,\n    onFocus,\n    registry = getDefaultRegistry(),\n  } = this.props;\n  const items = this.props.formData;\n  const { widgets, definitions, formContext } = registry;\n  const itemsSchema = retrieveSchema(schema.items, definitions, formData);\n  const enumOptions = optionsList(itemsSchema);\n  const { widget = \"select\", ...options } = {\n    ...getUiOptions(uiSchema),\n    enumOptions,\n  };\n  const Widget = getWidget(schema, widget, widgets);\n  return (\n    <Widget\n      id={idSchema && idSchema.$id}\n      multiple\n      onChange={this.onSelectChange}\n    />\n  );\n}

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    onBlur={onBlur}\n    onFocus={onFocus}\n    options={options}\n    schema={schema}\n
value={items}\n    disabled={disabled}\n    readonly={readonly}\n    formContext={formContext}\n
autofocus={autofocus}\n    />\n );\n }\n\n renderFiles() {\n const {\n schema,\n uiSchema,\n
idSchema,\n name,\n disabled,\n readonly,\n autofocus,\n onBlur,\n onFocus,\n registry =
getDefaultRegistry(),\n } = this.props;\n const title = schema.title || name;\n const items =
this.props.formData;\n const { widgets, formContext } = registry;\n const { widget = \"files\", ...options } =
getUiOptions(uiSchema);\n const Widget = getWidget(schema, widget, widgets);\n return (\n <Widget\n
options={options}\n id={idSchema && idSchema.$id}\n multiple\n
onChange={this.onSelectChange}\n onBlur={onBlur}\n onFocus={onFocus}\n schema={schema}\n
title={title}\n value={items}\n disabled={disabled}\n readonly={readonly}\n
formContext={formContext}\n autofocus={autofocus}\n />\n );\n }\n\n renderFixedArray() {\n const
{\n schema,\n uiSchema,\n formData,\n errorSchema,\n idSchema,\n name,\n required,\n
disabled,\n readonly,\n autofocus,\n registry = getDefaultRegistry(),\n onBlur,\n onFocus,\n } =
this.props;\n const title = schema.title || name;\n let items = this.props.formData;\n const {
ArrayFieldTemplate, definitions, fields } = registry;\n const { TitleField } = fields;\n const itemSchemas =
schema.items.map((item, index) =>\n retrieveSchema(item, definitions, formData[index])\n );\n const
additionalSchema = allowAdditionalItems(schema)\n ? retrieveSchema(schema.additionalItems, definitions,
formData)\n : null;\n\n if (!items || items.length < itemSchemas.length) {\n
// to make sure at least all fixed items are generated\n items = items || [];\n items = items.concat(new
Array(itemSchemas.length - items.length));\n }\n\n // These are the props passed into the render function\n
const arrayProps = {\n canAdd: this.canAddItem(items) && additionalSchema,\n className: \"field field-
array field-array-fixed-items\",\n disabled,\n idSchema,\n formData,\n items: items.map((item, index)
=> {\n const additional = index >= itemSchemas.length;\n const itemSchema = additional\n ?
retrieveSchema(schema.additionalItems, definitions, item)\n : itemSchemas[index];\n const itemIdPrefix =
idSchema.$id + \"_\" + index;\n const itemIdSchema = toIdSchema(\n itemSchema,\n
itemIdPrefix,\n definitions,\n item\n );\n const itemUiSchema = additional\n ?
uiSchema.additionalItems || {}\n : Array.isArray(uiSchema.items)\n
? uiSchema.items[index]\n : uiSchema.items || {};\n const itemErrorSchema = errorSchema ?
errorSchema[index] : undefined;\n return this.renderArrayFieldItem({\n index,\n canRemove:
additional,\n canMoveUp: index >= itemSchemas.length + 1,\n canMoveDown: additional && index <
items.length - 1,\n itemSchema,\n itemData: item,\n itemUiSchema,\n itemIdSchema,\n
itemErrorSchema,\n autofocus: autofocus && index === 0,\n onBlur,\n onFocus,\n });\n
}),\n onAddClick: this.onAddClick,\n readonly,\n required,\n schema,\n uiSchema,\n title,\n
TitleField,\n });\n\n // Check if a custom template template was passed in\n const Template =
ArrayFieldTemplate || DefaultFixedArrayFieldTemplate;\n return <Template {...arrayProps} />\n }\n\n
renderArrayFieldItem(props) {\n const {\n index,\n
canRemove = true,\n canMoveUp = true,\n canMoveDown = true,\n itemSchema,\n itemData,\n
itemUiSchema,\n itemIdSchema,\n itemErrorSchema,\n autofocus,\n onBlur,\n onFocus,\n } =
props;\n const {\n disabled,\n readonly,\n uiSchema,\n registry = getDefaultRegistry(),\n } =
this.props;\n const { fields: { SchemaField } } = registry;\n const { orderable, removable } = {\n orderable:
true,\n removable: true,\n ...uiSchema[\"ui:options\"],\n };\n const has = {\n moveUp: orderable &&
canMoveUp,\n moveDown: orderable && canMoveDown,\n remove: removable && canRemove,\n };
has.toolbar = Object.keys(has).some(key => has[key]);\n\n return {\n children: (\n <SchemaField\n
schema={itemSchema}\n uiSchema={itemUiSchema}\n formData={itemData}\n
errorSchema={itemErrorSchema}\n idSchema={itemIdSchema}\n
required={this.isItemRequired(itemSchema)}\n onChange={this.onChangeForIndex(index)}\n
onBlur={onBlur}\n onFocus={onFocus}\n registry={this.props.registry}\n
disabled={this.props.disabled}\n readonly={this.props.readonly}\n autofocus={autofocus}\n />\n

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),\n  className: \"array-item\",\n  disabled,\n  hasToolbar: has.toolbar,\n  hasMoveUp: has.moveUp,\n  hasMoveDown: has.moveDown,\n  hasRemove: has.remove,\n  index,\n  onDropIndexClick:\n  this.onDropIndexClick,\n  onReorderClick: this.onReorderClick,\n  readonly,\n  };\n }\n}\n\nfunction\nAddButton({ onClick, disabled }) {\n  return (\n    <div className=\"row\">\n      <p className=\"col-xs-3 col-xs-\noffset-9 array-item-add text-right\">\n        <IconBtn\n          type=\"info\"\n          icon=\"plus\"\n          className=\"btn-add col-xs-12\"\n          tabIndex=\"0\"\n          onClick={onClick}\n          disabled={disabled}\n        />\n      </p>\n    </div>\n  );\n}\n\nif (process.env.NODE_ENV !== \"production\") {\n  ArrayField.propTypes\n= {\n  schema: PropTypes.object.isRequired,\n  uiSchema: PropTypes.shape({\n    \"ui:options\":\n  PropTypes.shape({\n    addable: PropTypes.bool,\n    orderable: PropTypes.bool,\n    removable:\n  PropTypes.bool,\n  })),\n  idSchema: PropTypes.object,\n  errorSchema: PropTypes.object,\n  onChange: PropTypes.func.isRequired,\n  onBlur: PropTypes.func,\n  onFocus: PropTypes.func,\n  formData:\n  PropTypes.array,\n  required: PropTypes.bool,\n  disabled: PropTypes.bool,\n  readonly: PropTypes.bool,\n  autofocus: PropTypes.bool,\n  registry: PropTypes.shape({\n    widgets: PropTypes.objectOf(\n  PropTypes.oneOfType([PropTypes.func, PropTypes.object])\n  ).isRequired,\n  fields:\n  PropTypes.objectOf(PropTypes.func).isRequired,\n  definitions: PropTypes.object.isRequired,\n  formContext:\n  PropTypes.object.isRequired,\n  })),\n  };\n}\n\nexport default ArrayField;\n\n\n// WEBPACK FOOTER //\n\n./components/fields/ArrayField.js\", \"import React from \"react\";\nimport PropTypes from \"prop-\ntypes\";\n\nfunction UnsupportedField({ schema, idSchema, reason }) {\n  return (\n    <div\n      className=\"unsupported-field\">\n      <p>\n        Unsupported field schema {idSchema &&\n          idSchema.$id\n          && (\n            <span>\n              {\" for\"} field <code>{idSchema.$id}</code>\n            </span>\n          )}\n      {reason && <em>: {reason}</em>}.</p>\n      {schema && <pre>{JSON.stringify(schema, null,\n2)}</pre>}\n    </div>\n  );\n}\n\nif (process.env.NODE_ENV !== \"production\") {\n  UnsupportedField.propTypes = {\n    schema: PropTypes.object.isRequired,\n    idSchema: PropTypes.object,\n    reason: PropTypes.string,\n  };\n}\n\nexport default UnsupportedField;\n\n\n// WEBPACK FOOTER //\n\n./components/fields/UnsupportedField.js\", \"import React from \"react\";\nimport\n  PropTypes from \"prop-types\";\n\nimport {\n  getWidget,\n  getUiOptions,\n  optionsList,\n  getDefaultRegistry,\n} from \"../utils\";\n\nfunction BooleanField(props) {\n  const {\n    schema,\n    name,\n    uiSchema,\n    idSchema,\n    formData,\n    registry = getDefaultRegistry(),\n    required,\n    disabled,\n    readonly,\n    autofocus,\n    onChange,\n  } = props;\n  const { title } = schema;\n  const { widgets, formContext } =\n    registry;\n  const { widget = \"checkbox\", ...options } = getUiOptions(uiSchema);\n  const Widget =\n    getWidget(schema, widget, widgets);\n  const enumOptions = optionsList({\n    enum: [true, false],\n    enumNames:\n    schema.enumNames || [\"yes\", \"no\"],\n  });\n  return (\n    <Widget\n      options={{ ...options, enumOptions }}\n      schema={schema}\n      id={idSchema && idSchema.$id}\n      onChange={onChange}\n      label={title ===\n        undefined ? name : title}\n      value={formData}\n      required={required}\n      disabled={disabled}\n      readonly={readonly}\n      registry={registry}\n      formContext={formContext}\n      autofocus={autofocus}\n    />\n  );\n}\n\nif (process.env.NODE_ENV !== \"production\") {\n  BooleanField.propTypes = {\n    schema:\n  PropTypes.object.isRequired,\n    uiSchema: PropTypes.object,\n    idSchema: PropTypes.object,\n    onChange:\n  PropTypes.func.isRequired,\n    formData: PropTypes.bool,\n    required: PropTypes.bool,\n    disabled:\n  PropTypes.bool,\n    readonly: PropTypes.bool,\n    autofocus: PropTypes.bool,\n    registry: PropTypes.shape({\n    widgets: PropTypes.objectOf(\n      PropTypes.oneOfType([PropTypes.func, PropTypes.object])\n    ).isRequired,\n    fields: PropTypes.objectOf(PropTypes.func).isRequired,\n    definitions:\n  PropTypes.object.isRequired,\n    formContext: PropTypes.object.isRequired,\n  })),\n  };\n}\n\nBooleanField.defaultProps = {\n  uiSchema: {},\n  disabled: false,\n  readonly: false,\n  autofocus:\n  false,\n};\n\nexport default BooleanField;\n\n\n//\n  WEBPACK FOOTER //\n\n./components/fields/BooleanField.js\", \"import React from \"react\";\nimport PropTypes\n  from \"prop-types\";\n\nfunction DescriptionField(props) {\n  const { id, description } = props;\n  if (!description)\n    // See #312: Ensure compatibility with old versions of React.\n    return <div />;\n  if (typeof description

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=== \"string\") {\n  return (\n    <p id={id} className=\"field-description\">\n      {description}\n    </p>\n  );\n } else {\n  return (\n    <div id={id} className=\"field-description\">\n      {description}\n    </div>\n  );\n }\n}\n\nif (process.env.NODE_ENV !== \"production\") {\n  DescriptionField.propTypes = {\n    id:\n    PropTypes.string,\n    description: PropTypes.oneOfType([PropTypes.string, PropTypes.element]),\n  };\n}\n\nexport default DescriptionField;\n\n\n// WEBPACK FOOTER //\n\n./components/fields/DescriptionField.js\", \"import React from \"react\";\";\nimport PropTypes from \"prop-types\";\nimport { asNumber\n  } from \"../utils\";\n\nfunction NumberField(props) {\n  const { StringField } = props.registry.fields;\n  return (\n    <StringField\n      {...props}\n      onChange={ value => props.onChange(asNumber(value)) }\n    />\n  );\n }\n\nif (process.env.NODE_ENV !== \"production\") {\n  NumberField.propTypes = {\n    schema:\n    PropTypes.object.isRequired,\n    uiSchema: PropTypes.object,\n    idSchema: PropTypes.object,\n    onChange:\n    PropTypes.func.isRequired,\n    formData: PropTypes.oneOfType([PropTypes.number, PropTypes.string]),\n    required: PropTypes.bool,\n    formContext: PropTypes.object.isRequired,\n  };\n }\n\nNumberField.defaultProps = {\n  uiSchema: {},\n};\n\nexport default NumberField;\n\n\n// WEBPACK FOOTER //\n\n./components/fields/NumberField.js\", \"import React, { Component } from \"react\";\";\nimport PropTypes from \"prop-types\";\nimport {\n  orderProperties,\n  retrieveSchema,\n  getDefaultRegistry,\n} from \"../utils\";\n\nfunction\nDefaultObjectFieldTemplate(props)\n  {\n    const { TitleField, DescriptionField } = props;\n    return (\n      <fieldset>\n        {(props.uiSchema[\"ui:title\"] ||\n        props.title) && (\n          <TitleField\n            id={` ${props.idSchema.$id}__title` }\n            title={props.title ||\n            props.uiSchema[\"ui:title\"]}\n            required={props.required}\n            formContext={props.formContext}\n          />\n        )}\n        {props.description && (\n          <DescriptionField\n            id={` ${props.idSchema.$id}__description` }\n            description={props.description}\n            formContext={props.formContext}\n          />\n        )}\n        {props.properties.map(prop => prop.content)}\n      </fieldset>\n    );\n  }\n}\n\nclass ObjectField extends Component {\n  static defaultProps = {\n    uiSchema: {},\n    formData: {},\n    errorSchema: {},\n    idSchema: {},\n    required: false,\n    disabled: false,\n    readonly: false,\n  };\n\n  isRequired(name) {\n    const schema = this.props.schema;\n    return (\n      Array.isArray(schema.required)\n      && schema.required.indexOf(name) !== -1\n    );\n  }\n\n  onPropertyChange = name => {\n    return (value,\n    options) => {\n      const newFormData = { ...this.props.formData, [name]: value };\n      this.props.onChange(newFormData, options);\n    };\n  }\n\n  render() {\n    const {\n      uiSchema,\n      formData,\n      errorSchema,\n      idSchema,\n      name,\n      required,\n      disabled,\n      readonly,\n      onBlur,\n      onFocus,\n      registry = getDefaultRegistry(),\n    } = this.props;\n    const { definitions, fields, formContext } =\n      registry;\n    const { SchemaField, TitleField, DescriptionField } = fields;\n    const schema =\n      retrieveSchema(this.props.schema, definitions, formData);\n    const title = schema.title === undefined ? name :\n      schema.title;\n    const description = uiSchema[\"ui:description\"] || schema.description;\n    let\n      orderedProperties;\n\n    try {\n      const properties = Object.keys(schema.properties);\n      orderedProperties =\n        orderProperties(properties,\n        uiSchema[\"ui:order\"]);\n    } catch (err) {\n      return (\n        <div>\n          <p className=\"config-error\"\n            style={{ color: \"red\" }}>\n            Invalid { name || \"root\" } object field configuration:\n            <em>{err.message}</em>.\n          </p>\n          <pre>{JSON.stringify(schema)}</pre>\n        </div>\n      );\n    }\n\n    const Template = registry.ObjectFieldTemplate || DefaultObjectFieldTemplate;\n    const templateProps =\n      {\n        title: uiSchema[\"ui:title\"] || title,\n        description,\n        TitleField,\n        DescriptionField,\n        properties:\n        orderedProperties.map(name => {\n          return {\n            content: (\n              <SchemaField\n                key={ name }\n                name={ name }\n                required={ this.isRequired(name) }\n                schema={ schema.properties[name] }\n                uiSchema={ uiSchema[name] }\n                errorSchema={ errorSchema[name] }\n                idSchema={ idSchema[name] }\n                formData={ formData[name] }\n                onChange={ this.onPropertyChange(name) }\n                onBlur={ onBlur }\n                onFocus={ onFocus }\n                registry={ registry }\n                disabled={ disabled }\n                readonly={ readonly }\n              />\n            ),\n            name,\n            readonly,\n            disabled,\n            required,\n          }\n        })\n      };\n  }\n}

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    });\n  },\n  required,\n  idSchema,\n  uiSchema,\n  schema,\n  formData,\n  formContext,\n  });\n  return <Template {...templateProps} />);\n  }\n}\n\nif (process.env.NODE_ENV !== "production") {\n  ObjectField.propTypes = {\n    schema: PropTypes.object.isRequired,\n    uiSchema: PropTypes.object,\n    errorSchema: PropTypes.object,\n    idSchema: PropTypes.object,\n    onChange: PropTypes.func.isRequired,\n    formData: PropTypes.object,\n    required: PropTypes.bool,\n    disabled: PropTypes.bool,\n    readonly:\n    PropTypes.bool,\n    registry: PropTypes.shape({\n      widgets: PropTypes.objectOf(\n        PropTypes.oneOfType([PropTypes.func, PropTypes.object])\n      ).isRequired,\n      fields:\n        PropTypes.objectOf(PropTypes.func).isRequired,\n      definitions: PropTypes.object.isRequired,\n      formContext:\n        PropTypes.object.isRequired,\n    },\n  );\n}\n\nexport default ObjectField;\n\n// WEBPACK FOOTER //\n./components/fields/ObjectField.js", "import React from 'react';\nimport PropTypes from 'prop-types';\nimport\n{\n  isMultiSelect,\n  retrieveSchema,\n  getDefaultRegistry,\n  getUiOptions,\n  isFilesArray,\n  deepEquals,\n}\nfrom '../utils';\nimport UnsupportedField from './UnsupportedField';\nconst\nREQUIRED_FIELD_SYMBOL = '*';\nconst COMPONENT_TYPES = {\n  array: 'ArrayField',\n  boolean:\n  'BooleanField',\n  integer: 'NumberField',\n  number: 'NumberField',\n  object: 'ObjectField',\n  string:\n  'StringField',\n};\n\nfunction getFieldComponent(schema, uiSchema, idSchema, fields) {\n  const field =\n  uiSchema['ui:field'];\n  if\n  (typeof field === 'function') {\n    return field;\n  }\n  if (typeof field === 'string' && field in fields) {\n    return fields[field];\n  }\n  const componentName = COMPONENT_TYPES[schema.type];\n  return\n  componentName in fields\n    ? fields[componentName]\n    : () => {\n      return (\n        <UnsupportedField\n          schema={schema}\n          idSchema={idSchema}\n          reason={`Unknown field type ${schema.type}`}\n        />\n      );\n    };\n}\n\nfunction Label(props) {\n  const { label, required, id } = props;\n  if (!label) {\n    // See\n    #312: Ensure compatibility with old versions of React.\n    return <div />;\n  }\n  return (\n    <label\n      className="control-label"\n      htmlFor={id}>\n      {required ? label + REQUIRED_FIELD_SYMBOL : label}\n    </label>\n  );\n}\n\nfunction Help(props) {\n  const { help } = props;\n  if (!help) {\n    // See #312: Ensure\n    compatibility with old versions of React.\n    return <div />;\n  }\n  if (typeof help === 'string')\n  {\n    return <p className="help-block">{help}</p>;\n  }\n  return <div className="help-\n  block">{help}</div>;\n}\n\nfunction ErrorList(props) {\n  const { errors = [] } = props;\n  if (errors.length === 0)\n  {\n    return <div />;\n  }\n  return (\n    <div>\n      <p />\n      <ul className="error-detail bs-callout bs-callout-\n      info">\n        {errors.map((error, index) => {\n          return (\n            <li className="text-danger"\n              key={index}>\n                {error}\n              </li>\n            );\n          });\n        }\n      </ul>\n    </div>\n  );\n}\n\nfunction\n  DefaultTemplate(props) {\n  const {\n    id,\n    classNames,\n    label,\n    children,\n    errors,\n    help,\n    description,\n    hidden,\n    required,\n    displayLabel,\n  } = props;\n  if (hidden) {\n    return children;\n  }\n  return (\n    <div className={classNames}>\n      {displayLabel && <Label label={label} required={required}\n      id={id} />}\n      {displayLabel && description ? description : null}\n      {\n        children\n      }\n      {\n        errors\n      }\n      {\n        help\n      }\n    </div>\n  );\n}\n\nif (process.env.NODE_ENV !== "production") {\n  DefaultTemplate.propTypes = {\n    id: PropTypes.string,\n    classNames: PropTypes.string,\n    label:\n    PropTypes.string,\n    children: PropTypes.node.isRequired,\n    errors: PropTypes.element,\n    rawErrors:\n    PropTypes.arrayOf(PropTypes.string),\n    help: PropTypes.element,\n    rawHelp:\n    PropTypes.oneOfType([PropTypes.string, PropTypes.element]),\n    description: PropTypes.element,\n    rawDescription: PropTypes.oneOfType([PropTypes.string, PropTypes.element]),\n    hidden: PropTypes.bool,\n    required: PropTypes.bool,\n    readonly: PropTypes.bool,\n    displayLabel: PropTypes.bool,\n    fields:\n    PropTypes.object,\n    formContext: PropTypes.object,\n  }; \n}\n\nDefaultTemplate.defaultProps = {\n  hidden:\n  false,\n  readonly: false,\n  required: false,\n  displayLabel: true,\n};\n\nfunction SchemaFieldRender(props) {\n  const {\n    uiSchema,\n    formData,\n    errorSchema,\n    idSchema,\n    name,\n    required,\n    registry = getDefaultRegistry(),\n  } = props;\n  const {\n    definitions,\n    fields,\n    formContext,\n    FieldTemplate = DefaultTemplate,\n  } = registry;\n  const schema =\n  retrieveSchema(props.schema, definitions, formData);\n  const FieldComponent = getFieldComponent(schema,\n  uiSchema, idSchema, fields);\n  const { DescriptionField } = fields;\n  const disabled = Boolean(props.disabled ||

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uiSchema["ui:disabled"]);
const readonly = Boolean(props.readonly || uiSchema["ui:readonly"]);
const autofocus = Boolean(props.autofocus || uiSchema["ui:autofocus"]);
if (Object.keys(schema).length === 0) {
  // See #312: Ensure compatibility with old versions of React.
  return <div />;
}
const uiOptions = getUiOptions(uiSchema);
let { label: displayLabel = true } = uiOptions;
if (schema.type === "array") {
  displayLabel =
    isMultiSelect(schema, definitions) ||
    isFilesArray(schema, uiSchema, definitions);
}
if (schema.type === "object") {
  displayLabel = false;
}
if (schema.type === "boolean" && !uiSchema["ui:widget"]) {
  displayLabel = false;
}
if (uiSchema["ui:field"]) {
  displayLabel = false;
}
const { __errors, ...fieldErrorSchema } = errorSchema;
// See #439: uiSchema: Don't pass consumed class names to child components
const field = (
  <FieldComponent
    {...props}
    schema={schema}
    uiSchema={{ ...uiSchema, classNames: undefined }}
    disabled={disabled}
    readonly={readonly}
    autofocus={autofocus}
    errorSchema={fieldErrorSchema}
    formContext={formContext}
  />
);
const { type } = schema;
const id = idSchema.$id;
const label =
  uiSchema["ui:title"] || props.schema.title || schema.title || name;
const description =
  uiSchema["ui:description"] ||
  props.schema.description ||
  schema.description;
const errors = __errors;
const help = uiSchema["ui:help"];
const hidden = uiSchema["ui:widget"] === "hidden";
const classNames = [
  "form-group",
  "field",
  `field-${type}`,
  errors && errors.length > 0 ? "field-error has-error has-danger" : "",
  uiSchema.classNames,
].join(" ").trim();
const fieldProps = {
  description: (
    <DescriptionField
      id={id + "__description"}
      description={description}
    />
  ),
  formContext: formContext,
  rawDescription: description,
  help: <Help help={help} />,
  rawHelp: typeof help === "string" ? help : undefined,
  errors: <ErrorList errors={errors} />,
  rawErrors: errors,
  id,
  label,
  hidden,
  required,
  readonly,
  displayLabel,
  classNames,
  formContext,
  fields,
  schema,
  uiSchema,
};
return <FieldTemplate
  {...fieldProps}>{field}</FieldTemplate>;
}
class SchemaField extends React.Component {
  shouldComponentUpdate(nextProps, nextState) {
    // if schemas are equal idSchemas will be equal as well,
    // so it is not necessary to compare
    return !deepEquals(
      { ...this.props, idSchema: undefined },
      { ...nextProps, idSchema: undefined }
    );
  }
  render() {
    return SchemaFieldRender(this.props);
  }
}
SchemaField.defaultProps = {
  uiSchema: {},
  errorSchema: {},
  idSchema: {},
  disabled: false,
  readonly: false,
  autofocus: false,
};
if (process.env.NODE_ENV !== "production") {
  SchemaField.propTypes = {
    schema: PropTypes.object.isRequired,
    uiSchema: PropTypes.object,
    idSchema: PropTypes.object,
    formData: PropTypes.any,
    errorSchema: PropTypes.object,
    registry: PropTypes.shape({
      widgets: PropTypes.objectOf(
        PropTypes.oneOfType([
          PropTypes.func,
          PropTypes.object
        ])
      ).isRequired,
      fields: PropTypes.objectOf(
        PropTypes.func
      ).isRequired,
      definitions: PropTypes.object.isRequired,
      ArrayFieldTemplate: PropTypes.func,
      ObjectFieldTemplate: PropTypes.func,
      FieldTemplate: PropTypes.func,
      formContext: PropTypes.object.isRequired,
    }),
  };
}
export default SchemaField;
// WEBPACK FOOTER //
./components/fields/SchemaField.js,
import React from "react";
import PropTypes from "prop-types";
import {
  getWidget,
  getUiOptions,
  isSelect,
  optionsList,
  getDefaultRegistry,
} from "../../utils";
function StringField(props) {
  const {
    schema,
    name,
    uiSchema,
    idSchema,
    formData,
    required,
    disabled,
    readonly,
    autofocus,
    onChange,
    onBlur,
    onFocus,
    registry = getDefaultRegistry(),
  } = props;
  const { title, format } = schema;
  const { widgets, formContext } = registry;
  const enumOptions = isSelect(schema) && optionsList(schema);
  const defaultWidget = format || (enumOptions ? "select" : "text");
  const {
    widget = defaultWidget,
    placeholder = "",
    ...options
  } = getUiOptions(uiSchema);
  const Widget = getWidget(schema, widget, widgets);
  return (
    <Widget
      options={{ ...options, enumOptions }}
      schema={schema}
      id={idSchema && idSchema.$id}
      label={title === undefined ? name : title}
      value={formData}
      onChange={onChange}
      onBlur={onBlur}
      onFocus={onFocus}
      required={required}
      disabled={disabled}
      readonly={readonly}
      formContext={formContext}
      autofocus={autofocus}
      registry={registry}
      placeholder={placeholder}
    />
  );
}

```

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(process.env.NODE_ENV !== "production") {\n  StringField.propTypes = {\n    schema:
PropTypes.object.isRequired,\n    uiSchema: PropTypes.object.isRequired,\n    idSchema: PropTypes.object,\n    onChange: PropTypes.func.isRequired,\n    onBlur: PropTypes.func,\n    onFocus: PropTypes.func,\n    formData:
PropTypes.oneOfType([PropTypes.string,
  PropTypes.number]),\n    registry: PropTypes.shape({\n      widgets: PropTypes.objectOf(\n
PropTypes.oneOfType([PropTypes.func, PropTypes.object]))\n    }).isRequired,\n    fields:
PropTypes.objectOf(PropTypes.func).isRequired,\n    definitions: PropTypes.object.isRequired,\n    formContext:
PropTypes.object.isRequired,\n    },\n    formContext: PropTypes.object.isRequired,\n    required:
PropTypes.bool,\n    disabled: PropTypes.bool,\n    readonly: PropTypes.bool,\n    autofocus: PropTypes.bool,\n
  });\n}\n\nStringField.defaultProps = {\n  uiSchema: {},\n  disabled: false,\n  readonly: false,\n  autofocus:
false,\n};\n\nexport default StringField;\n\n\n\n// WEBPACK FOOTER //\n\n\n\n./components/fields/StringField.js", "import React from "react";\nimport PropTypes from "prop-types";\n\nconst
REQUIRED_FIELD_SYMBOL = "*";\n\nfunction TitleField(props) {\n  const { id, title, required } = props;\n  const legend = required ? title + REQUIRED_FIELD_SYMBOL : title;\n  return
<legend id={id}>{legend}</legend>;\n}\n\nif (process.env.NODE_ENV !== "production") {\n
TitleField.propTypes = {\n  id: PropTypes.string,\n  title: PropTypes.string,\n  required: PropTypes.bool,\n
};\n}\n\nexport default TitleField;\n\n\n\n// WEBPACK FOOTER //\n\n\n\n./components/fields/TitleField.js", "import
AltDateWidget from "../AltDateWidget";\nimport AltDateTimeWidget from "../AltDateTimeWidget";\nimport
BaseInput from "../BaseInput";\nimport CheckboxWidget from "../CheckboxWidget";\nimport CheckboxesWidget
from "../CheckboxesWidget";\nimport ColorWidget from "../ColorWidget";\nimport DateWidget from
../DateWidget";\nimport DateTimeWidget from "../DateTimeWidget";\nimport EmailWidget from
../EmailWidget";\nimport FileWidget from "../FileWidget";\nimport HiddenWidget from
../HiddenWidget";\nimport PasswordWidget from "../PasswordWidget";\nimport RadioWidget from
../RadioWidget";\nimport RangeWidget from "../RangeWidget";\nimport SelectWidget from
../SelectWidget";\nimport
TextareaWidget from "../TextareaWidget";\nimport TextWidget from "../TextWidget";\nimport URLWidget from
../URLWidget";\nimport UpDownWidget from "../UpDownWidget";\n\nexport default {\n  BaseInput,\n  PasswordWidget,\n  RadioWidget,\n  UpDownWidget,\n  RangeWidget,\n  SelectWidget,\n  TextWidget,\n  DateWidget,\n  DateTimeWidget,\n  AltDateWidget,\n  AltDateTimeWidget,\n  EmailWidget,\n  URLWidget,\n  TextareaWidget,\n  HiddenWidget,\n  ColorWidget,\n  FileWidget,\n  CheckboxWidget,\n
  CheckboxesWidget,\n};\n\n\n\n// WEBPACK FOOTER //\n\n\n\n./components/widgets/index.js", "import React, {
Component } from "react";\nimport PropTypes from "prop-types";\n\nimport { shouldRender, parseDateString,
toDateString, pad } from "../utils";\n\nfunction rangeOptions(start, stop) {\n  let options = [];\n  for (let i = start; i
<= stop; i++) {\n    options.push({ value: i, label: pad(i, 2) });\n  }\n  return options;\n}\n\nfunction
readyForChange(state) {\n  return
Object.keys(state).every(key => state[key] !== -1);\n}\n\nfunction DateElement(props) {\n  const {\n    type,\n
range,\n    value,\n    select,\n    rootId,\n    disabled,\n    readonly,\n    autofocus,\n    registry,\n    onBlur,\n  } =
props;\n  const id = rootId + "_" + type;\n  const { SelectWidget } = registry.widgets;\n  return (\n
<SelectWidget\n    schema={{ type: "integer" }}\n    id={id}\n    className="form-control"\n    options={{
enumOptions: rangeOptions(range[0], range[1]) }}\n    placeholder={type}\n    value={value}\n
disabled={disabled}\n    readonly={readonly}\n    autofocus={autofocus}\n    onChange={value => select(type,
value)}\n    onBlur={onBlur}\n  />\n);\n}\n\nclass AltDateWidget extends Component {\n  static defaultProps =
{\n    time: false,\n    disabled: false,\n    readonly: false,\n    autofocus: false,\n  }; \n\n  constructor(props) {\n
super(props);\n    this.state = parseDateString(props.value, props.time);\n  }\n\n  componentWillReceiveProps(nextProps) {\n
this.setState(parseDateString(nextProps.value,
nextProps.time));\n  }\n\n  shouldComponentUpdate(nextProps, nextState) {\n    return shouldRender(this,
nextProps, nextState);\n  }\n\n  onChange = (property, value) => {\n    this.setState(\n      { [property]: typeof value
=== "undefined" ? -1 : value },\n      () => {\n        // Only propagate to parent state if we have a complete

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```

types`;
import DescriptionField from `../fields/DescriptionField.js`;
function CheckboxWidget(props) {
  const {
    schema,
    id,
    value,
    required,
    disabled,
    readonly,
    label,
    autofocus,
    onChange,
  } = props;
  return (
    <div className={`checkbox ${disabled || readonly ? "disabled" : ""}`>
      {schema.description && (
        <DescriptionField description={schema.description} />
      )}
      <label>
        <input
          type="checkbox"
          id={id}
          checked={typeof value ===
"undefined" ? false : value}
          required={required}
          disabled={disabled || readonly}
          autoFocus={autofocus}
          onChange={event => onChange(event.target.checked)}
        />
      </label>
    </div>
  );
}
CheckboxWidget.defaultProps = {
  autofocus:
false,
};
if (process.env.NODE_ENV !== "production") {
  CheckboxWidget.propTypes = {
    schema:
PropTypes.object.isRequired,
    id: PropTypes.string.isRequired,
    value: PropTypes.bool,
    required:
PropTypes.bool,
    disabled: PropTypes.bool,
    readonly: PropTypes.bool,
    autofocus: PropTypes.bool,
    onChange: PropTypes.func,
  };
}
export default CheckboxWidget;
// WEBPACK FOOTER //
./components/widgets/CheckboxWidget.js", "import React from "react";
import PropTypes from "prop-
types";
function
selectValue(value, selected, all) {
  const at = all.indexOf(value);
  const updated = selected.slice(0,
at).concat(value, selected.slice(at));
  // As inserting values at predefined index positions doesn't work with empty
// arrays, we need to reorder the updated selection to match the initial order
  return updated.sort((a, b) =>
all.indexOf(a) > all.indexOf(b));
}
function deselectValue(value, selected) {
  return selected.filter(v => v !==
value);
}
function CheckboxesWidget(props) {
  const { id, disabled, options, value, autofocus, readonly,
onChange } = props;
  const { enumOptions, inline } = options;
  return (
    <div className="checkboxes"
id={id}>
      {enumOptions.map((option, index) => {
        const checked = value.indexOf(option.value) !== -
1;
        const disabledCls = disabled || readonly ? "disabled" : "";
        const checkbox = (
          <span>
            <input
              type="checkbox"
              id={` ${id}_ ${index} `
              checked={checked}
              disabled={disabled || readonly}
              autoFocus={autofocus && index
=== 0}
              onChange={event => {
                const all = enumOptions.map(({ value }) => value);
                if (event.target.checked) {
                  onChange(selectValue(option.value, value, all));
                } else {
                  onChange(deselectValue(option.value, value));
                }
              }}
            </span>
            <span>
              );
          return inline ? (
            <label key={index}
className={`checkbox-inline ${disabledCls}`>
              {checkbox}
            </label>
          ) : (
            <div
key={index} className={`checkbox ${disabledCls}`>
              <label>{checkbox}</label>
            </div>
          );
        })}
    </div>
  );
}
checkboxesWidget.defaultProps = {
  autofocus: false,
  options: {
    inline:
false,
  },
};
if (process.env.NODE_ENV !== "production") {
  CheckboxesWidget.propTypes = {
    schema:
PropTypes.object.isRequired,
    id: PropTypes.string.isRequired,
    options: PropTypes.shape({
      enumOptions: PropTypes.array,
      inline: PropTypes.bool,
    }).isRequired,
    value: PropTypes.any,
    required: PropTypes.bool,
    readonly: PropTypes.bool,
    disabled: PropTypes.bool,
    multiple:
PropTypes.bool,
    autofocus: PropTypes.bool,
    onChange: PropTypes.func,
  };
}
export default
checkboxesWidget;
// WEBPACK FOOTER //
./components/widgets/checkboxesWidget.js", "import
React from "react";
import PropTypes from "prop-types";
function ColorWidget(props) {
  const { disabled,
readonly, registry: { widgets: { BaseInput } } } = props;
  return <BaseInput type="color" {...props}
disabled={disabled || readonly} />;
}
if (process.env.NODE_ENV !== "production") {
  ColorWidget.propTypes = {
    schema: PropTypes.object.isRequired,
    id: PropTypes.string.isRequired,
    value: PropTypes.string,
    required: PropTypes.bool,
    disabled:
PropTypes.bool,
    readonly: PropTypes.bool,
    autofocus: PropTypes.bool,
    onChange: PropTypes.func,
  };
}
export default ColorWidget;
// WEBPACK FOOTER //
./components/widgets/ColorWidget.js", "import React from "react";
import PropTypes from "prop-
types";
function DateWidget(props) {
  const { onChange, registry: { widgets: { BaseInput } } } = props;
  return (
    <BaseInput
type="date"
    {...props}
    onChange={value => onChange(value ||

```

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undefined)}\n />\n );\n}\n\nif (process.env.NODE_ENV !== \"production\") {\n DateWidget.propTypes = {\n
value: PropTypes.string,\n };}\n\nexport default DateWidget;\n\n\n// WEBPACK FOOTER /\n//
./components/widgets/DateWidget.js\", \"import React from \"react\";\nimport PropTypes from \"prop-
types\";\nimport { pad } from \"../utils\";\n\nexport function utcToLocal(jsonDate)
{\n if (!jsonDate) {\n return \"\";\n }\n\n // required format of \"yyyy-MM-ddThh:mm\" followed by optional
\":ss\" or \":ss.SSS\"\n // https://html.spec.whatwg.org/multipage/input.html#local-date-and-time-state-
(type%3Ddatetime-local)\n // > should be a _valid local date and time string_ (not GMT)\n\n // Note - date
constructor passed local ISO-8601 does not correctly\n // change time to UTC in node pre-8\n const date = new
Date(jsonDate);\n const yyyy = pad(date.getFullYear(), 4);\n const MM = pad(date.getMonth() + 1, 2);\n const
dd = pad(date.getDate(), 2);\n const hh = pad(date.getHours(), 2);\n const mm = pad(date.getMinutes(), 2);\n const
ss = pad(date.getSeconds(), 2);\n const SSS = pad(date.getMilliseconds(), 3);\n\n return `${yyyy}-${MM}-
${dd}T${hh}:${mm}:${ss}.${SSS}`;\n}\n\nexport function localToUTC(dateString) {\n if (dateString) {\n
return new Date(dateString).toJSON();\n }\n}\n\nfunction DateTimeWidget(props) {\n const { value,
onChange, registry: { widgets: { BaseInput } } } = props;\n return (\n <BaseInput\n type=\"datetime-local\"\n
{...props}\n value={utcToLocal(value)}\n onChange={value => onChange(localToUTC(value))}\n />\n
);\n}\n\nif (process.env.NODE_ENV !== \"production\") {\n DateTimeWidget.propTypes = {\n value:
PropTypes.string,\n };}\n\nexport default DateTimeWidget;\n\n\n// WEBPACK FOOTER /\n//
./components/widgets/DateTimeWidget.js\", \"import React from \"react\";\nimport PropTypes from \"prop-
types\";\n\nfunction EmailWidget(props) {\n const { BaseInput } = props.registry.widgets;\n return <BaseInput
type=\"email\" {...props} />;\n}\n\nif (process.env.NODE_ENV !== \"production\") {\n EmailWidget.propTypes =
{\n value: PropTypes.string,\n };}\n\nexport default EmailWidget;\n\n\n// WEBPACK FOOTER /\n//
./components/widgets/EmailWidget.js\", \"import React, { Component } from \"react\";\nimport PropTypes from
\"prop-types\";\n\nimport { dataURIToBlob,
shouldRender, setState } from \"../utils\";\n\nfunction addNameToDataURL(dataURL, name) {\n return
dataURL.replace(\";base64\", `;name=${name};base64`);\n}\n\nfunction processFile(file) {\n const { name, size,
type } = file;\n return new Promise((resolve, reject) => {\n const reader = new window.FileReader();\n
reader.onload = event => {\n resolve({\n dataURL: addNameToDataURL(event.target.result, name),\n
name,\n size,\n type,\n });\n });\n reader.readAsDataURL(file);\n });\n}\n\nfunction
processFiles(files) {\n return Promise.all([].map.call(files, processFile));\n}\n\nfunction FileInfo(props) {\n const
{ fileInfo } = props;\n if (fileInfo.length === 0) {\n return null;\n }\n return (\n <ul className=\"file-
info\">\n {fileInfo.map((fileInfo, key) => {\n const { name, size, type } = fileInfo;\n return (\n <li
key={key}>\n <strong>{name}</strong> ({type}, {size} bytes)\n
</li>\n );\n })}\n </ul>\n );\n}\n\nfunction extractFileInfo(dataURLs) {\n return dataURLs\n
.filter(dataURL => typeof dataURL !== \"undefined\")\n .map(dataURL => {\n const { blob, name } =
dataURIToBlob(dataURL);\n return {\n name: name,\n size: blob.size,\n type: blob.type,\n
};\n });\n}\n\nclass FileWidget extends Component {\n defaultProps = {\n multiple: false,\n };}\n\n constructor(props)
{\n super(props);\n const { value } = props;\n const values = Array.isArray(value) ? value : [value];\n
this.state = { values, fileInfo: extractFileInfo(values) };\n}\n\n shouldComponentUpdate(nextProps, nextState)
{\n return shouldRender(this, nextProps, nextState);\n }\n\n onChange = event => {\n const { multiple,
onChange } = this.props;\n processFiles(event.target.files).then(fileInfo => {\n const state = {\n values:
fileInfo.map(fileInfo => fileInfo.dataURL),\n fileInfo,\n
};\n setState(this, state, () => {\n if (multiple) {\n onChange(state.values);\n } else {\n
onChange(state.values[0]);\n }\n });\n });\n });\n}\n\n render() {\n const { multiple, id, readonly, disabled,
autofocus } = this.props;\n const { fileInfo } = this.state;\n return (\n <div>\n <p>\n <input\n
ref={ref => (this.inputRef = ref)}\n id={id}\n type=\"file\"\n disabled={readonly || disabled}\n
onChange={this.onChange}\n defaultValue=\"\"\n autoFocus={autofocus}\n
multiple={multiple}\n />\n </p>\n <FileInfo fileInfo={fileInfo} />\n </div>\n );\n
}\n}\n\nFileWidget.defaultProps = {\n autofocus: false,\n};\n\nif (process.env.NODE_ENV !== \"production\") {\n

```

```

FileWidget.propTypes = {
  multiple: PropTypes.bool,
  value: PropTypes.oneOfType([
    PropTypes.string,
    PropTypes.arrayOf(PropTypes.string),
  ]),
  autofocus: PropTypes.bool,
};
export default FileWidget;
// WEBPACK FOOTER //
./components/widgets/FileWidget.js", "import React from
'react';
import PropTypes from 'prop-types';
function HiddenWidget({ id, value }) {
  return (
    <input
      type='hidden'
      id={id}
      value={typeof value === 'undefined' ? '' : value}
    />
  );
}
if (process.env.NODE_ENV !== 'production') {
  HiddenWidget.propTypes = {
    id:
      PropTypes.string.isRequired,
    value: PropTypes.oneOfType([
      PropTypes.string,
      PropTypes.number,
      PropTypes.bool,
    ]),
  };
}
export default HiddenWidget;
// WEBPACK FOOTER //
./components/widgets/HiddenWidget.js", "import React from 'react';
import PropTypes from 'prop-
types';
function PasswordWidget(props) {
  const { BaseInput } = props.registry.widgets;
  return <BaseInput
    type='password' {...props} />;
}
if (process.env.NODE_ENV !== 'production') {
  PasswordWidget.propTypes = {
    value: PropTypes.string,
  };
}
export default PasswordWidget;
// WEBPACK FOOTER //
./components/widgets/PasswordWidget.js", "import React from 'react';
import PropTypes from 'prop-
types';
function RadioWidget(props) {
  const {
    options,
    value,
    required,
    disabled,
    readonly,
    autofocus,
    onChange,
  } = props;
  // Generating a unique field name to identify this set of radio
  buttons
  const name = Math.random().toString();
  const { enumOptions, inline } = options;
  //
  checked={checked} has been moved above name={name}, As mentioned in #349;
  // this is a temporary fix for
  radio button rendering bug in React, facebook/react#7630.
  return (
    <div className='field-radio-group'>
      {enumOptions.map((option, i) => {
        const checked = option.value === value;
        const disabledCls =
          disabled || readonly ? 'disabled' : '';
        const radio = (
          <span>
            <input
              type='radio'
              checked={checked}
              name={name}
              required={required}
              value={option.value}
              disabled={disabled ||
                readonly}
              autoFocus={autofocus && i === 0}
              onChange={_ => onChange(option.value)}
            />
            <span>{option.label}</span>
          </span>
        );
        return inline ? (
          <label key={i}
            className={`radio-inline ${disabledCls}`}>
              {radio}
            </label>
        ) : (
          <div key={i}
            className={`radio ${disabledCls}`}>
              <label>{radio}</label>
            </div>
          );
        </div>
      );
    }
  );
}
RadioWidget.defaultProps = {
  autofocus: false,
};
if (process.env.NODE_ENV !==
'production') {
  RadioWidget.propTypes = {
    schema: PropTypes.object.isRequired,
    id:
      PropTypes.string.isRequired,
    options:
      PropTypes.shape({
        enumOptions: PropTypes.array,
        inline: PropTypes.bool,
      }).isRequired,
    value:
      PropTypes.any,
    required: PropTypes.bool,
    disabled: PropTypes.bool,
    readonly: PropTypes.bool,
    autofocus: PropTypes.bool,
    onChange: PropTypes.func,
  };
}
export default RadioWidget;
// WEBPACK FOOTER //
./components/widgets/RadioWidget.js", "import React from 'react';
import
PropTypes from 'prop-types';
import { rangeSpec } from '../utils';
function RangeWidget(props) {
  const {
    schema,
    value,
    registry: {
      widgets: {
        BaseInput,
      },
    },
  } = props;
  return (
    <div className='field-range-
wrapper'>
      <BaseInput type='range' {...props} {...rangeSpec(schema)} />
      <span className='range-
view'>
        {value}
      </span>
    </div>
  );
}
if (process.env.NODE_ENV !== 'production') {
  RangeWidget.propTypes = {
    value: PropTypes.oneOfType([
      PropTypes.string,
      PropTypes.number,
    ]),
  };
}
export default
RangeWidget;
// WEBPACK FOOTER //
./components/widgets/RangeWidget.js", "import React from
'react';
import PropTypes from 'prop-types';
import { asNumber } from '../utils';
// This is a
silly limitation in the DOM where option change event values are
* always retrieved as strings.
*/
function
processValue({ type, items }, value) {
  if (value === '') {
    return undefined;
  } else if (
    type ===
    'array' &&
    items &&
    ['number', 'integer'].includes(items.type)
  ) {
    return
    value.map(asNumber);
  } else if (type === 'boolean') {
    return value === 'true';
  } else if (type ===
'number') {
    return asNumber(value);
  }
  return value;
}
function getValue(event, multiple) {
  if

```



```

(multiple) {\n  return [].slice\n    .call(event.target.options)\n    .filter(o => o.selected)\n    .map(o => o.value);\n} else {\n  return event.target.value;\n}\n}\n\nfunction SelectWidget(props) {\n  const {\n    schema,\n    id,\n    options,\n    value,\n    required,\n    disabled,\n    readonly,\n    multiple,\n    autofocus,\n    onChange,\n    onBlur,\n    onFocus,\n    placeholder,\n  } = props;\n  const { enumOptions, enumDisabled } =\n    options;\n  const emptyValue = multiple ? [] : \"\";\n  return (\n    <select\n      id={id}\n      multiple={multiple}\n      className=\"form-control\"\n      value={typeof value === \"undefined\" ? emptyValue : value}\n      required={required}\n      disabled={disabled || readonly}\n      autoFocus={autofocus}\n      onBlur={\n        onBlur\n        &&\n        (event => {\n          const newValue = getValue(event, multiple);\n          onBlur(id,\n            processValue(schema, newValue));\n        })\n      }\n      onFocus={\n        onFocus &&\n        (event => {\n          const newValue = getValue(event, multiple);\n          onFocus(id, processValue(schema, newValue));\n        })\n      }\n      onChange={event => {\n        const newValue = getValue(event,\n          multiple);\n        onChange(processValue(schema, newValue));\n      }}>\n    {!multiple && !schema.default &&\n      <option value=\"\">{placeholder}</option>\n      {enumOptions.map(({ value, label }, i) => {\n        const disabled\n          = enumDisabled && enumDisabled.indexOf(value) !== -1;\n        return (\n          <option key={i} value={value}\n            disabled={disabled}>\n            {label}\n          </option>\n        );\n      })}\n    </select>\n  );\n}\n\nSelectWidget.defaultProps = {\n  autofocus: false,\n};\n\nif (process.env.NODE_ENV !== \"production\")\n  {\n    SelectWidget.propTypes = {\n      schema: PropTypes.object.isRequired,\n      id: PropTypes.string.isRequired,\n      options: PropTypes.shape({\n        enumOptions: PropTypes.array,\n      }).isRequired,\n      value: PropTypes.any,\n      required: PropTypes.bool,\n      disabled: PropTypes.bool,\n      readonly: PropTypes.bool,\n      multiple:\n        PropTypes.bool,\n      autofocus: PropTypes.bool,\n      onChange: PropTypes.func,\n      onBlur: PropTypes.func,\n      onFocus: PropTypes.func,\n    };\n  }\n\nexport default SelectWidget;\n\n\n// WEBPACK FOOTER //\n\n./components/widgets/SelectWidget.js\", \"import React from 'react';\nimport PropTypes from 'prop-types';\n\nfunction TextareaWidget(props) {\n  const {\n    id,\n    options,\n    placeholder,\n    value,\n    required,\n    disabled,\n    readonly,\n    autofocus,\n    onChange,\n    onBlur,\n    onFocus,\n  } = props;\n  const\n    _onChange = ({ target: { value } }) => {\n      return onChange(value === \"\" ? options.emptyValue : value);\n    };\n  return (\n    <textarea\n      id={id}\n      className=\"form-control\"\n      value={typeof value === \"undefined\" ?\n        \"\" : value}\n      placeholder={placeholder}\n      required={required}\n      disabled={disabled}\n      readOnly={readonly}\n      autoFocus={autofocus}\n      rows={options.rows}\n      onBlur={onBlur && (event =>\n        onBlur(id, event.target.value))}\n      onFocus={onFocus && (event => onFocus(id, event.target.value))}\n      onChange={_onChange}\n    />\n  );\n}\n\nTextareaWidget.defaultProps = {\n  autofocus: false,\n  options:\n    {},\n};\n\nif (process.env.NODE_ENV !== \"production\")\n  {\n    TextareaWidget.propTypes = {\n      schema:\n        PropTypes.object.isRequired,\n      id: PropTypes.string.isRequired,\n      placeholder: PropTypes.string,\n      options:\n        PropTypes.shape({\n          rows: PropTypes.number,\n        }),\n      value: PropTypes.string,\n      required:\n        PropTypes.bool,\n      disabled: PropTypes.bool,\n      readonly: PropTypes.bool,\n      autofocus: PropTypes.bool,\n      onChange: PropTypes.func,\n      onBlur: PropTypes.func,\n      onFocus: PropTypes.func,\n    };\n  }\n\nexport default\n  TextareaWidget;\n\n\n// WEBPACK FOOTER //\n\n./components/widgets/TextareaWidget.js\", \"import React\nfrom 'react';\nimport PropTypes from 'prop-types';\n\nfunction TextWidget(props) {\n  const { BaseInput } =\n    props.registry.widgets;\n  return <BaseInput {...props} />;\n}\n\nif (process.env.NODE_ENV !== \"production\")\n  {\n    TextWidget.propTypes\n      = {\n        value: PropTypes.oneOfType([PropTypes.string, PropTypes.number]),\n      };\n  }\n\nexport default\n  TextWidget;\n\n\n// WEBPACK FOOTER //\n\n./components/widgets/TextWidget.js\", \"import React from\n'react';\nimport PropTypes from 'prop-types';\n\nfunction URLWidget(props) {\n  const { BaseInput } =\n    props.registry.widgets;\n  return <BaseInput type='url' {...props} />;\n}\n\nif (process.env.NODE_ENV !==\n  \"production\")\n  {\n    URLWidget.propTypes = {\n      value: PropTypes.string,\n    };\n  }\n\nexport default\n  URLWidget;\n\n\n// WEBPACK FOOTER //\n\n./components/widgets/URLWidget.js\", \"import React from\n'react';\nimport PropTypes from 'prop-types';\nimport { rangeSpec } from '../utils';\n\nfunction\n  UpDownWidget(props) {\n  const { registry: { widgets: { BaseInput } } } =\n    props;\n  return <BaseInput\n    type='number' {...props} {...rangeSpec(props.schema)} />;\n}\n\nif (process.env.NODE_ENV !==

```

```
\"production\") {\n  UpDownWidget.propTypes = {\n    value: PropTypes.oneOfType([PropTypes.number,\n    PropTypes.string]),\n  }; \n} \n\nexport default UpDownWidget; \n\n\n\n// WEBPACK FOOTER // \n\n\n./components/widgets/UpDownWidget.js\"],\"sourceRoot\":\"\"}
```

Found in path(s):

```
* /opt/cola/permits/1753956346_1690485600.1935887/0/react-jsonschema-form-1-0-0-tgz/package/dist/react-jsonschema-form.js.map
```

## 1.879 react-router-dom 4.1.1

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## 1.880 redux 3.4.0

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## 1.881 redux-act 1.3.2

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////

ca-legacy(8)

=====

:doctype: manpage

:man source: ca-legacy

NAME

----

ca-legacy - Manage the system configuration for legacy CA certificates

SYNOPSIS

-----

\*ca-legacy\* [COMMAND]

## DESCRIPTION

-----

ca-legacy(8) is used to include or exclude a set of legacy Certificate Authority (CA) certificates in the system's list of trusted CA certificates.

The list of CA certificates and trust flags included in the ca-certificates package are based on the decisions made by Mozilla.org according to the Mozilla CA policy.

Occasionally, removal or distrust decisions made by Mozilla.org might be incompatible with the requirements or limitations of some applications that also use the CA certificates list in the Linux environment.

The ca-certificates package might keep some CA certificates included and trusted by default, as long as it is seen necessary by the maintainers, despite the fact that they have been removed by Mozilla. These certificates are called legacy CA certificates.

The general requirements to keep legacy CA certificates included and trusted might change over time, for example if functional limitations of software packages have been resolved. Future versions of the ca-certificates package might reduce the set of legacy CA certificates that are included and trusted by default.

The ca-legacy(8) command can be used to override the default behaviour.

The mechanisms to individually trust or distrust CA certificates as described in update-ca-trust(8) still apply.

## COMMANDS

-----

**\*check\*::**

The current configuration will be shown.

**\*default\*::**

Configure the system to use the default configuration, as recommended by the package maintainers.

**\*disable\*::**

Configure the system to explicitly disable legacy CA certificates. Using this configuration, the system will use the set of included and trusted CA certificates as released by Mozilla.

**\*install\*::**

The configuration file will be read and the system configuration will be set accordingly. This command is executed automatically during upgrades of the ca-certificates package.

## FILES

-----

/etc/pki/ca-trust/ca-legacy.conf::

A configuration file that will be used and modified by the ca-legacy command.

The contents of the configuration file will be read on package upgrades.

## AUTHOR

-----

Written by Kai Engert.

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////

update-ca-trust(8)

=====

:doctype: manpage

:man source: update-ca-trust

## NAME

----

update-ca-trust - manage consolidated and dynamic configuration of CA certificates and associated trust

## SYNOPSIS

-----

\*update-ca-trust\* ['COMMAND']

## DESCRIPTION

-----

update-ca-trust(8) is used to manage a consolidated and dynamic configuration feature of Certificate Authority (CA) certificates and associated trust.

The feature is available for new applications that read the consolidated configuration files found in the /etc/pki/ca-trust/extracted directory or that load the PKCS#11 module p11-kit-trust.so

Parts of the new feature are also provided in a way to make it useful for legacy applications.

Many legacy applications expect CA certificates and trust configuration in a fixed location, contained in files with particular path and name, or by referring to a classic PKCS#11 trust module provided by the NSS cryptographic library.

The dynamic configuration feature provides functionally compatible replacements for classic configuration files and for the classic NSS trust module named libnssckbi.

In order to enable legacy applications, that read the classic files or access the classic module, to make use of the new consolidated and dynamic configuration feature, the classic filenames have been changed to symbolic links. The symbolic links refer to dynamically created and consolidated output stored below the /etc/pki/ca-trust/extracted directory hierarchy.

The output is produced using the 'update-ca-trust' command (without parameters), or using the 'update-ca-trust extract' command.

In order to produce the output, a flexible set of source configuration is read, as described in section <<sourceconf,SOURCE CONFIGURATION>>.

In addition, the classic PKCS#11 module is replaced with a new PKCS#11 module (p11-kit-trust.so) that dynamically reads the same source configuration.

[[sourceconf]]

SOURCE CONFIGURATION

-----

The dynamic configuration feature uses several source directories that will be scanned for any number of source files. \*It is important to select the correct subdirectory for adding files, as the subdirectory defines how contained certificates will be trusted or distrusted, and which file formats are read.\*

Files in \*subdirectories below the directory hierarchy /usr/share/pki/ca-trust-source/\* contain CA certificates and trust settings in the PEM file format. The trust settings found here will be interpreted with a \*low priority\*.

Files in \*subdirectories below the directory hierarchy /etc/pki/ca-trust/source/\* contain CA certificates and trust settings in the PEM file format. The trust settings found here will be interpreted with a \*high priority\*.

.You may use the following rules of thumb to decide, whether your configuration files should be added to the /etc or rather to the /usr directory hierarchy:

\* If you are manually adding a configuration file to a system, you probably want it to override any other default configuration, and you most likely should add it to the respective subdirectory in the /etc hierarchy.

\* If you are creating a package that provides additional root CA certificates, that is intended for distribution to several computer systems, but you still want to allow the administrator to override your list, then your package should add your files to the respective subdirectory in the /usr hierarchy.

\* If you are creating a package that is supposed to override the default system trust settings, that is intended for distribution to several computer systems, then your package should install the files to the respective subdirectory in the /etc hierarchy.

.\*QUICK HELP 1\*: To add a certificate in the simple PEM or DER file formats to the list of CAs trusted on the system:

- \* add it as a new file to directory /etc/pki/ca-trust/source/anchors/
- \* run 'update-ca-trust extract'

.\*QUICK HELP 2\*: If your certificate is in the extended BEGIN TRUSTED file format (which may contain distrust/blacklist trust flags, or trust flags for usages other than TLS) then:

- \* add it as a new file to directory /etc/pki/ca-trust/source/
- \* run 'update-ca-trust extract'

.In order to offer simplicity and flexibility, the way certificate files are treated depends on the subdirectory they are installed to.

- \* simple trust anchors subdirectory: /usr/share/pki/ca-trust-source/anchors/ or /etc/pki/ca-trust/source/anchors/
- \*
- simple blacklist (distrust) subdirectory: /usr/share/pki/ca-trust-source/blacklist/ or /etc/pki/ca-trust/source/blacklist/
- \* extended format directory: /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/

.In the main directories /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/ you may install one or multiple files in the following file formats:

\* certificate files that include trust flags,  
in the BEGIN/END TRUSTED CERTIFICATE file format  
(any file name), which have been created using the openssl x509 tool  
and the -addrject -addtrust options.

Bundle files with multiple certificates are supported.

\* files in the p11-kit file format using the .p11-kit file name  
extension, which can (e.g.) be used to distrust certificates  
based on serial number and issuer name, without having the  
full certificate available.

(This is currently an undocumented format, to be extended later.

For examples of the supported formats, see the files  
shipped with the ca-certificates package.)

\* certificate files without trust flags in either the DER file format or in  
the PEM (BEGIN/END CERTIFICATE) file format (any file name). Such files  
will be added with neutral trust, neither trusted nor distrusted.

They will simply be known to the system, which might be helpful to  
assist cryptographic software in constructing chains of certificates.

(If you want a CA certificate in these file formats to be trusted, you  
should remove it from this directory and move it to the  
./anchors subdirectory instead.)

In the anchors subdirectories /usr/share/pki/ca-trust-source/anchors/ or /etc/pki/ca-trust/source/anchors/  
you may install one or multiple certificates in either the DER file  
format or in the PEM (BEGIN/END CERTIFICATE) file format.

Each certificate will be treated as *\*trusted\** for all purposes.

In the blacklist subdirectories /usr/share/pki/ca-trust-source/blacklist/ or /etc/pki/ca-trust/source/blacklist/  
you may install

one or multiple certificates in either the DER file  
format or in the PEM (BEGIN/END CERTIFICATE) file format.

Each certificate will be treated as *\*distrusted\** for all purposes.

Please refer to the x509(1) manual page for the documentation of the  
BEGIN/END CERTIFICATE and BEGIN/END TRUSTED CERTIFICATE file formats.

Applications that rely on a static file for a list of trusted CAs  
may load one of the files found in the /etc/pki/ca-trust/extracted  
directory. After modifying any file in the  
/usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/  
directories or in any of their subdirectories, or after adding a file,  
it is necessary to run the 'update-ca-trust extract' command,  
in order to update the consolidated files in /etc/pki/ca-trust/extracted/ .

Applications that load the classic PKCS#11 module using filename libnssckbi.so  
(which has been converted into a symbolic link pointing to the new module)  
and any application capable of  
loading PKCS#11 modules and loading p11-kit-trust.so,

will benefit from  
the dynamically merged set of certificates and trust information stored in the  
/usr/share/pki/ca-trust-source/ and /etc/pki/ca-trust/source/ directories.

[[extractconf]]

## EXTRACTED CONFIGURATION

-----

The directory /etc/pki/ca-trust/extracted/ contains generated CA certificate  
bundle files which are created and updated, based on the <<sourceconf,SOURCE CONFIGURATION>>  
by running the 'update-ca-trust extract' command.

If your application isn't able to load the PKCS#11 module p11-kit-trust.so,  
then you can use these files in your application to load a list of global  
root CA certificates.

Please never manually edit the files stored in this directory,  
because your changes will be lost and the files automatically overwritten,  
each time the 'update-ca-trust extract' command gets executed.

In order to install new trusted or distrusted certificates,  
please rather install them in the respective subdirectory below the  
/usr/share/pki/ca-trust-source/  
or /etc/pki/ca-trust/source/  
directories, as described in the <<sourceconf,SOURCE CONFIGURATION>> section.

The directory /etc/pki/ca-trust/extracted/java/ contains  
a CA certificate bundle in the java keystore file format.  
Distrust information cannot be represented in this file format,  
and distrusted certificates are missing from these files.  
File cacerts contains CA certificates trusted for TLS server authentication.

The directory /etc/pki/ca-trust/extracted/openssl/ contains  
CA certificate bundle files in the extended BEGIN/END TRUSTED CERTIFICATE file format,  
as described in the x509(1) manual page.  
File ca-bundle.trust.crt contains the full set of all trusted  
or distrusted certificates, including the associated trust flags.

The directory /etc/pki/ca-trust/extracted/pem/ contains  
CA certificate bundle files in the simple BEGIN/END CERTIFICATE file format,  
as described in the x509(1) manual page.  
Distrust information cannot be represented in this file format,  
and distrusted  
certificates are missing from these files.  
File tls-ca-bundle.pem contains CA certificates  
trusted for TLS server authentication.  
File email-ca-bundle.pem contains CA certificates  
trusted for E-Mail protection.

File `objsign-ca-bundle.pem` contains CA certificates trusted for code signing.

The directory `/etc/pki/ca-trust/extracted/edk2/` contains a CA certificate bundle ("`cacerts.bin`") in the "sequence of EFI\_SIGNATURE\_LISTs" format, defined in the UEFI-2.7 specification, sections "31.4.1 Signature Database" and "EFI\_CERT\_X509\_GUID". Distrust information cannot be represented in this file format, and distrusted certificates are missing from these files. File "`cacerts.bin`" contains CA certificates trusted for TLS server authentication.

## COMMANDS

-----

(absent/empty command)::

Same as the `*extract*` command described below. (However, the command may print fewer warnings, as this command is being run during rpm package installation, where non-fatal status output is undesired.)

`*extract*::`

Instruct `update-ca-trust` to scan the `<<sourceconf,SOURCE CONFIGURATION>>` and produce updated versions of the consolidated configuration files stored below the `/etc/pki/ca-trust/extracted` directory hierarchy.

## FILES

-----

`/etc/pki/tls/certs/ca-bundle.crt::`

Classic filename, file contains a list of CA certificates trusted for TLS server authentication usage, in the simple BEGIN/END CERTIFICATE file format, without distrust information.

This file is a symbolic link that refers to the consolidated output created by the `update-ca-trust` command.

`/etc/pki/tls/certs/ca-bundle.trust.crt::`

Classic filename, file contains a list of CA certificates in the extended BEGIN/END TRUSTED CERTIFICATE file format, which includes trust (and/or distrust) flags specific to certificate usage.

This file is a symbolic link that refers to the consolidated output created by the `update-ca-trust` command.

`/etc/pki/java/cacerts::`

Classic filename, file contains a list of

CA certificates trusted for TLS server authentication usage, in the Java keystore file format, without distrust information.

This file is a symbolic link that refers to the consolidated output created by the `update-ca-trust` command.

`/usr/share/pki/ca-trust-source::`

Contains multiple, low priority source configuration files as explained in section `<<sourceconf,SOURCE CONFIGURATION>>`. Please pay attention to the specific meanings of the respective subdirectories.



/etc/pki/ca-trust/source::

Contains multiple, high priority source configuration files as explained in section <<sourceconf,SOURCE CONFIGURATION>>. Please pay attention to the specific meanings of the respective subdirectories.

/etc/pki/ca-trust/extracted::

Contains consolidated and automatically generated configuration files for consumption by applications, which are created using the 'update-ca-trust extract' command. Don't edit files in this directory, because they will be overwritten.

See section <<extractconf,EXTRACTED CONFIGURATION>> for additional details.

## AUTHOR

-----

Written by Kai Engert and Stef Walter.

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

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

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

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the



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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used

by this function must

be optional: if the application does not supply it, the square root function must still compute square roots.)

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qOPQUXpopOopMMPqnPnXXQPNOPNRnqQNQqStwVxuQSTtVW  
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File: Core.js

Description:

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

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

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

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# 1.894 file 5.33-25.e18

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## 1.897 go-toml 1.9.4

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localtime.go, localtime\_test.go:

Originals:

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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# 1.904 delayed-stream 1.0.0

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```
# delayed-stream
```

Buffers events from a stream until you are ready to handle them.

```
## Installation
```

```
``` bash
npm install delayed-stream
```
```

```
## Usage
```

The following example shows how to write a http echo server that delays its response by 1000 ms.

```
``` javascript
var DelayedStream = require('delayed-stream');
var http = require('http');

http.createServer(function(req, res) {
  var delayed = DelayedStream.create(req);

  setTimeout(function() {
    res.writeHead(200);
    delayed.pipe(res);
  }, 1000);
});
```
```

If you are not using `Stream#pipe`, you can also manually release the buffered events by calling `delayedStream.resume()`:

```
``` javascript
var delayed = DelayedStream.create(req);
```

```
setTimeout(function() {  
  // Emit all buffered events and resume underlying source  
  delayed.resume();  
}, 1000);  
````
```

## ## Implementation

In order to use this meta stream properly, here are a few things you should know about the implementation.

### ###

#### Event Buffering / Proxying

All events of the ``source`` stream are hijacked by overwriting the ``source.emit`` method. Until node implements a catch-all event listener, this is the only way.

However, `delayed-stream` still continues to emit all events it captures on the ``source``, regardless of whether you have released the delayed stream yet or not.

Upon creation, `delayed-stream` captures all ``source`` events and stores them in an internal event buffer. Once ``delayedStream.release()`` is called, all buffered events are emitted on the ``delayedStream``, and the event buffer is cleared. After that, `delayed-stream` merely acts as a proxy for the underlying source.

### ### Error handling

Error events on ``source`` are buffered / proxied just like any other events. However, ``delayedStream.create`` attaches a no-op ``error`` listener to the ``source``. This way you only have to handle errors on the ``delayedStream`` object, rather than in two places.

### ### Buffer limits

`delayed-stream` provides a ``maxDataSize`` property that can be used to limit the amount of data being buffered. In order to protect you from bad ``source`` streams that don't react to ``source.pause()``, this feature is enabled by default.

## ## API

### `DelayedStream.create(source, [options])`

Returns a new ``delayedStream``. Available options are:

```
* `pauseStream`  
* `maxDataSize`
```

The description for those properties can be found below.

```
### delayedStream.source
```

The `source` stream managed by this object. This is useful if you are passing your `delayedStream` around, and you still want to access properties on the `source` object.

```
### delayedStream.pauseStream = true
```

Whether to pause the underlying `source` when calling `DelayedStream.create()`. Modifying this property afterwards has no effect.

```
### delayedStream.maxDataSize = 1024 * 1024
```

The amount of data to buffer before emitting an `error`.

If the underlying source is emitting `Buffer` objects, the `maxDataSize` refers to bytes.

If the underlying source is emitting JavaScript strings, the size refers to characters.

If you know what you are doing, you can set this property to `Infinity` to disable this feature. You can also modify this property during runtime.

```
### delayedStream.dataSize = 0
```

The amount of data buffered so far.

```
### delayedStream.readable
```

An ECMA5 getter that returns the value of `source.readable`.

```
### delayedStream.resume()
```

If the `delayedStream` has not been released so far, `delayedStream.release()` is called.

In either case, `source.resume()` is called.

```
### delayedStream.pause()
```



Calls `source.pause()`.

```
### delayedStream.pipe(dest)
```

Calls `delayedStream.resume()` and then proxies the arguments to `source.pipe`.

```
### delayedStream.release()
```

Emits and clears all events that have been buffered up so far. This does not resume the underlying source, use `delayedStream.resume()` instead.

```
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```

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Found in path(s):

```
* /opt/cola/permits/1830745388_1698153819.4839122/0/fis-components-delayed-stream-1-0-0-0-g42ac44e-1-tar-gz/fis-components-delayed-stream-3c3d86f/Readme.md
```

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## xwd v1.0.7

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org.fusesource.jansi version 2.4.0

org.apache.sshd 2.9.2

org.apache.felix.gogo.runtime 1.1.6

org.apache.felix.gogo.jline 1.1.8

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```
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```

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```
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```

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```
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```

```
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## 1.928 util-linux 2.32.1-43.el8



## 1.928.1 Available under license :

```
7zXZF!t/5]oK3&K6Y^
CP#vMOoYL?6]2z({CLYj0
LFIU<>Q&}7!C}e6]]e`M,J}.dE,4hVmp
RsTk!Jr!Quo1OE|FfP+A}XBT9 \<
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BS=)d ;*!;_>KfB }&ea)F~H#@|DExb
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;}8SPT"_p;27 *,D-sS|11np#_(~*'uM%S61opMG`B=gD7-`rFTvDY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d
;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXx+sS|11np#_(~*'uM%S61opMG`YfRXvY[R+t[ BS=)d
;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d ;*!;_>KfBqxY(F|0.Ve%Q?f_{+T@Uo)2fgYZ
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```

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```

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```

```
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under certain conditions; type `show c' for details.
```

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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e
```

```
calculate_md5_sum() {
  local FILE="$1"
```

```
# Read the contents of the file into a variable
```



```

local raw_license_text=$(<"$FILE")

# Convert to lowercase
local lowercase_license_text="{raw_license_text,}"

# Remove anything before the beginning of the license
local stripped_license_text=$(awk '/permission is hereby granted/{p=1} p' <<< "$lowercase_license_text")

# Replace line breaks (Windows or Linux) with a single space
local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

# Replace multiple spaces with a single space
local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

# Strip away any non-printable, non-whitespace characters
local clean_unprintable_license_text=$(tr
-cd '[:print:][:space:]' <<< "$normalized_license_text")

# Remove punctuation and special characters
local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

# Calculate the MD5 sum of the cleaned license text
local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

# Output the MD5 sum
echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
echo "Please provide a FILE as an argument."
exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"

```

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@item

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@subheading END OF TERMS AND CONDITIONS

@page

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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## 1.932 crypto-policies 20230731-

## 1.git3177e06.e18

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## 1.934 elfutils 0.189-3.el8

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## Constant-time SSSE3 AES core implementation.

## version 0.1

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## By Mike Hamburg (Stanford University), 2009

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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```

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Version 3, 29 June 2007

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# 1.936 audit 3.0.7-5.el8

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

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

the free library to free software only, so we use the Lesser General Public License.

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

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

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the



application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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## Constant-time SSSE3 AES core implementation.

## version 0.1

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## By Mike Hamburg (Stanford University), 2009

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```
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```

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# 1.939 curl 7.61.1-33.el8

## 1.939.1 Available under license :

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License Mixing

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>) licensed code is not allowed to be linked with code licensed under the [Original BSD license](<https://spdx.org/licenses/BSD-4-Clause.html>) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](<https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs>). This particular problem

was addressed when the [Modified BSD license](<https://opensource.org/licenses/BSD-3-Clause>) was created, which does not have the announcement clause that collides with GPL.

#### ## libcurl

Uses an [MIT style license](<https://curl.haxx.se/docs/copyright.html>) that is very liberal.

#### ## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

#### ## GnuTLS

(May be used for SSL/TLS support) Uses the [LGPL](<https://www.gnu.org/licenses/lgpl.html>) license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

#### ## WolfSSL

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##  
BoringSSL

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## libressl

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

## MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

## Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

## GNU GSS

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

## 1.940 glibc 2.28-236.el8\_9.7

### 1.940.1 Available under license :

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@center Version 2.1, February 1999

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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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## 1.950 zlib 1.2.11

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# 1.955 activation-api 1.2.2

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# 1.956 pelletier-go-toml v1.9.5

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[localtime.go](https://github.com/pelletier/localtime.go), [localtime\\_test.go](https://github.com/pelletier/localtime_test.go):

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go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil\_test.go

Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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# 1.957 [github.com-pelletier-go-toml-v2](https://github.com/pelletier/go-toml-v2) v2.0.5

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# 1.958 [golang.org-x-time](https://golang.org/x/time) v0.0.0-

## 20220922220347-f3bd1da661af

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## 1.959 golang.org-x-xerrors v0.0.0-

## 20220517211312-f3a8303e98df

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mgo - MongoDB driver for Go

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# 1.978 golang.org-x-sys v0.0.0-20220520151302-bc2c85ada10a

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### v3.8.1

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# 1.981 github.com-streadway-amqp v0.0.0-20200108173154-1c71cc93ed71

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# 1.984 k8s.io-klog-v2 v2.30.0

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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# 1.1007 github.com-cespare-xxhash-v2 v2.1.1

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# 1.1019 [github.com-emicklei-go-restful](https://github.com/emicklei/go-restful) v2.9.5+incompatible

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# 1.1021 github.com-beorn7-perks v1.0.1

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# 1.1022 github.com-prometheus-procfs v0.6.0

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# 1.1032 github.com-pmezard-go-difflib v1.0.0

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# 1.1035 github.com-alecthomas-template v0.0.0-20190718012654-fb15b899a751

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# 1.1036 gopkg.in-alecthomas-kingpin.v2 v2.2.6

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# 1.1037 jsr305 3.0.2

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>org.sonatype.oss</groupId>
    <artifactId>oss-parent</artifactId>
    <version>7</version>
    <relativePath />
  </parent>

  <groupId>com.google.code.findbugs</groupId>
  <artifactId>jsr305</artifactId>
  <version>3.0.2</version>
  <packaging>jar</packaging>

  <url>http://findbugs.sourceforge.net/</url>
  <name>FindBugs-jsr305</name>
  <description>JSR305 Annotations for Findbugs</description>
  <licenses>
    <license>
      <name>The Apache Software License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
      <distribution>repo</distribution>
    </license>
  </licenses>

  <prerequisites>
    <maven>3.0</maven>
  </prerequisites>
```

```
<scm>
  <connection>scm:git:https://code.google.com/p/jsr-305/</connection>
  <developerConnection>scm:git:https://code.google.com/p/jsr-305/</developerConnection>
  <url>https://code.google.com/p/jsr-305/</url>
</scm>
```

```
<build>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-javadoc-plugin</artifactId>
      <version>2.9.1</version>
      <executions>
        <execution>
          <phase>package</phase>
          <goals>
            <goal>jar</goal>
          </goals>
          <configuration>
            <quiet>>true</quiet>
          </configuration>
        </execution>
      </executions>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.0</version>
      <configuration>
        <source>1.5</source>
        <target>1.5</target>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-source-plugin</artifactId>
      <version>2.4</version>
      <executions>
        <execution>
          <id>attach-sources</id>
          <goals>
            <goal>jar-no-fork</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
    <plugin>
      <groupId>org.apache.felix</groupId>
```

```

<artifactId>maven-bundle-plugin</artifactId>
<version>2.4.0</version>
<extensions>>true</extensions>
<executions>
  <execution>
    <id>bundle-manifest</id>
    <phase>process-classes</phase>
    <goals>
      <goal>manifest</goal>
    </goals>
  </execution>
</executions>
<configuration>
  <instructions>
    <Bundle-SymbolicName>org.jsr-305</Bundle-SymbolicName>
    <Bundle-Name>${project.name}</Bundle-Name>
    <Export-Package>javax.annotation;javax.annotation.concurrent;javax.annotation.meta</Export-Package>
  </instructions>
</configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-jar-plugin</artifactId>
  <version>2.4</version>
  <configuration>
    <archive>
      <manifestFile>${project.build.outputDirectory}/META-INF/MANIFEST.MF</manifestFile>
    </archive>
  </configuration>
</plugin>
<plugin>
  <groupId>org.sonatype.plugins</groupId>
  <artifactId>nexus-staging-maven-plugin</artifactId>
  <version>1.6.3</version>
  <extensions>>true</extensions>
  <configuration>
    <serverId>ossrh</serverId>
    <nexusUrl>https://oss.sonatype.org</nexusUrl>
    <autoReleaseAfterClose>>true</autoReleaseAfterClose>
  </configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-gpg-plugin</artifactId>
  <version>1.5</version>
  <executions>
    <execution>

```



```
<id>sign-artifacts</id>
<phase>verify</phase>
<goals>
  <goal>sign</goal>
</goals>
</execution>
</executions>
</plugin>
</plugins>
</build>
</project>
```

Found in path(s):

```
* /opt/cola/permits/1982448225_1713767424.6824625/0/jsr305-3-0-2-14-jar/META-INF/maven/com.google.code.findbugs/jsr305/pom.xml
```

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Manifest-Version: 1.0

Bundle-Description: JSR305 Annotations for Findbugs

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

Bundle-SymbolicName: org.jsr-305

Archiver-Version: Plexus Archiver

Built-By: lan

Bnd-LastModified: 1490936130302

Bundle-ManifestVersion: 2

Tool: Bnd-2.1.0.20130426-122213

Export-Package: javax.annotation;uses:="javax.annotation.meta";version="3.0.2",javax.annotation.concurrent;version="3.0.2",javax.annotation.meta;uses:="javax.annotation";version="3.0.2"

Bundle-Name: FindBugs-jsr305

Bundle-Version: 3.0.2

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_101

Found in path(s):

```
* /opt/cola/permits/1982448225_1713767424.6824625/0/jsr305-3-0-2-14-jar/META-INF/MANIFEST.MF
```

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## 1.1041 asm-9 9.2

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# Jackson JSON processor

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

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