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Contents

- 1.1 1to2-1.0.0.tgz 1.0.0**
- 1.2 abbrev-1.1.1.tgz 1.1.1**
- 1.3 accessors-smart-1.1.jar 1.1**
 - 1.3.1 Available under license
- 1.4 accessors-smart-1.2.jar 1.2**
- 1.5 acorn-5.7.3.tgz 5.7.3**
- 1.6 acorn-6.3.0.tgz 6.3.0**
- 1.7 acorn-6.4.0.tgz 6.4.0**
 - 1.7.1 Available under license
- 1.8 acorn-7.1.0.tgz 7.1.0**
- 1.9 acorn-jsx-5.1.0.tgz 5.1.0**
- 1.10 activation-1.1.1.jar 1.1.1**
- 1.11 activation-1.1.jar 1.1**
 - 1.11.1 Available under license
- 1.12 adal4j-1.3.0.jar 1.3.0**
- 1.13 adapter-rxjava-2.4.0.jar 2.4.0**
- 1.14 add-dom-event-listener-1.1.0.tgz 1.1.0**
- 1.15 add-px-to-style-1.0.0.tgz 1.0.0**

- 1.16 aggregate-error-3.0.1.tgz 3.0.1**
 - 1.16.1 Available under license
- 1.17 ajv-5.5.2.tgz 5.5.2**
 - 1.17.1 Available under license
- 1.18 ajv-6.10.2.tgz 6.10.2**
- 1.19 ajv-6.11.0.tgz 6.11.0**
 - 1.19.1 Available under license
- 1.20 ajv-errors-1.0.1.tgz 1.0.1**
- 1.21 aliyun-java-sdk-core-4.1.2.jar 4.1.2**
- 1.22 aliyun-java-sdk-ecs-4.11.0.jar 4.11.0**
- 1.23 aliyun-java-sdk-ram-3.0.0.jar 3.0.0**
- 1.24 ambari 2.6.2**
 - 1.24.1 Available under license
- 1.25 amdefine-1.0.1.tgz 1.0.1**
- 1.26 amqp-client-2.8.6.jar 2.8.6**
 - 1.26.1 Available under license
- 1.27 amqp-client-4.8.3.jar 4.8.3**
 - 1.27.1 Available under license
- 1.28 amqp-client-5.5.2.jar 5.5.2**
 - 1.28.1 Available under license
- 1.29 android-json-0.0.20131108.vaadin1.jar 0.0.20131108.vaadin1**
- 1.30 anet-java-sdk-1.8.2.jar 1.8.2**
- 1.31 animal-sniffer-annotations-1.14.jar 1.14**
- 1.32 annotations 2.0.1**
 - 1.32.1 Available under license
- 1.33 annotations-17.0.0.jar 17.0.0**
- 1.34 annotations-3.0.1.jar 3.0.1**
 - 1.34.1 Available under license
- 1.35 ansi-escapes-1.4.0.tgz 1.4.0**
- 1.36 ansi-escapes-3.2.0.tgz 3.2.0**
- 1.37 ansi-escapes-4.3.0.tgz 4.3.0**
 - 1.37.1 Available under license
- 1.38 ansi-regex-2.1.1.tgz 2.1.1**
- 1.39 ansi-regex-3.0.0.tgz 3.0.0**
- 1.40 ansi-regex-4.1.0.tgz 4.1.0**
- 1.41 ansi-regex-5.0.0.tgz 5.0.0**
 - 1.41.1 Available under license
- 1.42 ansi-styles-2.2.1.tgz 2.2.1**
- 1.43 ansi-styles-3.2.1.tgz 3.2.1**

- 1.44 ansi-styles-4.2.1.tgz 4.2.1**
 - 1.44.1 Available under license
- 1.45 ant-contrib 1.0b3**
 - 1.45.1 Available under license
- 1.46 antlr 2.7.7**
 - 1.46.1 Available under license
- 1.47 any-observable-0.3.0.tgz 0.3.0**
 - 1.47.1 Available under license
- 1.48 aopalliance-1.0.jar 1.0**
- 1.49 aopalliance-repackaged-2.5.0-b32.jar 2.5.0-b32**
- 1.50 Apache Lucene 2.0.0**
 - 1.50.1 Available under license
- 1.51 api-common-1.7.0.jar 1.7.0**
- 1.52 apiguardian-api-1.1.0.jar 1.1.0**
- 1.53 arch-2.1.1.tgz 2.1.1**
- 1.54 argparse-1.0.10.tgz 1.0.10**
- 1.55 arr-diff-4.0.0.tgz 4.0.0**
- 1.56 arr-flatten-1.1.0.tgz 1.1.0**
- 1.57 arr-union-3.1.0.tgz 3.1.0**
- 1.58 array-uniq-1.0.3.tgz 1.0.3**
- 1.59 array-unique-0.3.2.tgz 0.3.2**
- 1.60 asap-2.0.6.tgz 2.0.6**
- 1.61 asciidoctorj-1.6.1.jar 1.6.1**
- 1.62 asciidoctorj-api-1.6.1.jar 1.6.1**
- 1.63 asm-5.0.3.jar 5.0.3**
- 1.64 asm-5.0.4.jar 5.0.4**
- 1.65 asn1-0.2.4.tgz 0.2.4**
- 1.66 aspectjrt-1.8.14.jar 1.8.14**
 - 1.66.1 Available under license
- 1.67 aspectjrt-1.8.7.jar 1.8.7**
 - 1.67.1 Available under license
- 1.68 aspectjtools-1.8.7.jar 1.8.7**
 - 1.68.1 Available under license
- 1.69 aspectjweaver-1.8.14.jar 1.8.14**
 - 1.69.1 Available under license
- 1.70 aspectjweaver-1.8.7.jar 1.8.7**
 - 1.70.1 Available under license
- 1.71 assert-plus-1.0.0.tgz 1.0.0**
- 1.72 assertj-core-2.6.0.jar 2.6.0**

1.73 assertj-core-3.13.2.jar 3.13.2
1.74 assign-symbols-1.0.0.tgz 1.0.0
1.75 ast-types-0.10.1.tgz 0.10.1
1.76 ast-types-0.9.6.tgz 0.9.6
1.77 astral-regex-1.0.0.tgz 1.0.0
1.78 async 0.1.1
 1.78.1 Available under license
1.79 async-2.6.1.tgz 2.6.1
1.80 async-2.6.3.tgz 2.6.3
1.81 asynckit-0.4.0.tgz 0.4.0
1.82 atomikos-util-4.0.0.jar 4.0.0
1.83 automaton-1.11-8.jar 1.11-8
1.84 autoprefixer-7.2.3.tgz 7.2.3
1.85 aws-sign2-0.7.0.tgz 0.7.0
1.86 aws4-1.9.1.tgz 1.9.1
 1.86.1 Available under license
1.87 axios-0.19.0.tgz 0.19.0
1.88 azure-1.21.0.jar 1.21.0
1.89 azure-annotations-1.7.0.jar 1.7.0
1.90 azure-arm-client-runtime-1.6.1.jar 1.6.1
1.91 azure-client-authentication-1.6.4.jar 1.6.4
1.92 azure-client-runtime-1.6.4.jar 1.6.4
1.93 azure-keyvault-1.0.0.jar 1.0.0
1.94 azure-keyvault-core-1.0.0.jar 1.0.0
1.95 azure-keyvault-webkey-1.0.0.jar 1.0.0
1.96 azure-mgmt-appservice-1.21.0.jar 1.21.0
1.97 azure-mgmt-batch-1.21.0.jar 1.21.0
1.98 azure-mgmt-batchai-1.21.0.jar 1.21.0
1.99 azure-mgmt-cdn-1.21.0.jar 1.21.0
1.100 azure-mgmt-compute-1.21.0.jar 1.21.0
1.101 azure-mgmt-containerinstance-1.21.0.jar 1.21.0
1.102 azure-mgmt-containerregistry-1.21.0.jar 1.21.0
1.103 azure-mgmt-containerservice-1.21.0.jar 1.21.0
1.104 azure-mgmt-cosmosdb-1.21.0.jar 1.21.0
1.105 azure-mgmt-dns-1.21.0.jar 1.21.0
1.106 azure-mgmt-eventhub-1.21.0.jar 1.21.0
1.107 azure-mgmt-graph-rbac-1.21.0.jar 1.21.0
1.108 azure-mgmt-keyvault-1.21.0.jar 1.21.0
1.109 azure-mgmt-locks-1.21.0.jar 1.21.0

- 1.110 azure-mgmt-monitor-1.21.0.jar 1.21.0
- 1.111 azure-mgmt-msi-1.21.0.jar 1.21.0
- 1.112 azure-mgmt-mysql-1.0.0-beta-2.jar 1.0.0-beta-2
- 1.113 azure-mgmt-network-1.21.0.jar 1.21.0
- 1.114 azure-mgmt-postgresql-1.0.0-beta-4.jar 1.0.0-beta-4
- 1.115 azure-mgmt-redis-1.21.0.jar 1.21.0
- 1.116 azure-mgmt-resources-1.21.0.jar 1.21.0
- 1.117 azure-mgmt-search-1.21.0.jar 1.21.0
- 1.118 azure-mgmt-servicebus-1.21.0.jar 1.21.0
- 1.119 azure-mgmt-sql-1.21.0.jar 1.21.0
- 1.120 azure-mgmt-storage-1.21.0.jar 1.21.0
- 1.121 azure-mgmt-trafficmanager-1.21.0.jar 1.21.0
- 1.122 azure-storage-8.2.0.jar 8.2.0
- 1.123 b64-to-blob-1.2.19.tgz 1.2.19
- 1.124 babel-code-frame-6.26.0.tgz 6.26.0
- 1.125 babel-helper-bindify-decorators-6.24.1.tgz 6.24.1
- 1.126 babel-helper-builder-binary-assignment-operator-visitor-6.24.1.tgz 6.24.1
- 1.127 babel-helper-explode-assignable-expression-6.24.1.tgz 6.24.1
- 1.128 babel-helper-explode-class-6.24.1.tgz 6.24.1
- 1.129 babel-helper-function-name-6.24.1.tgz 6.24.1
- 1.130 babel-helper-get-function-arity-6.24.1.tgz 6.24.1
- 1.131 babel-helper-remap-async-to-generator-6.24.1.tgz 6.24.1
- 1.132 babel-messages-6.23.0.tgz 6.23.0
- 1.133 babel-plugin-emotion-9.2.11.tgz 9.2.11
- 1.134 babel-plugin-macros-2.8.0.tgz 2.8.0
 - 1.134.1 Available under license
- 1.135 babel-plugin-styled-components-1.10.7.tgz 1.10.7
 - 1.135.1 Available under license
- 1.136 babel-plugin-syntax-async-functions-6.13.0.tgz 6.13.0
- 1.137 babel-plugin-syntax-async-generators-6.13.0.tgz 6.13.0
- 1.138 babel-plugin-syntax-class-constructor-call-6.18.0.tgz 6.18.0
- 1.139 babel-plugin-syntax-class-properties-6.13.0.tgz 6.13.0
- 1.140 babel-plugin-syntax-decorators-6.13.0.tgz 6.13.0
- 1.141 babel-plugin-syntax-dynamic-import-6.18.0.tgz 6.18.0
- 1.142 babel-plugin-syntax-exponentiation-operator-6.13.0.tgz 6.13.0
- 1.143 babel-plugin-syntax-export-extensions-6.13.0.tgz 6.13.0
- 1.144 babel-plugin-syntax-jsx-6.18.0.tgz 6.18.0
- 1.145 babel-plugin-syntax-object-rest-spread-6.13.0.tgz 6.13.0
- 1.146 babel-plugin-syntax-trailing-function-commas-6.22.0.tgz 6.22.0

1.147 babel-plugin-transform-async-generator-functions-6.24.1.tgz 6.24.1
1.148 babel-plugin-transform-async-to-generator-6.24.1.tgz 6.24.1
1.149 babel-plugin-transform-class-constructor-call-6.24.1.tgz 6.24.1
1.150 babel-plugin-transform-class-properties-6.24.1.tgz 6.24.1
1.151 babel-plugin-transform-decorators-6.24.1.tgz 6.24.1
1.152 babel-plugin-transform-exponentiation-operator-6.24.1.tgz 6.24.1
1.153 babel-plugin-transform-export-extensions-6.22.0.tgz 6.22.0
1.154 babel-plugin-transform-object-rest-spread-6.26.0.tgz 6.26.0
1.155 babel-polyfill 6.23.0
1.156 babel-polyfill-6.26.0.tgz 6.26.0
1.157 babel-preset-stage-1-6.24.1.tgz 6.24.1
1.158 babel-preset-stage-2-6.24.1.tgz 6.24.1
1.159 babel-preset-stage-3-6.24.1.tgz 6.24.1
1.160 babel-runtime-6.26.0.tgz 6.26.0
1.161 babel-template-6.26.0.tgz 6.26.0
1.162 babel-traverse-6.26.0.tgz 6.26.0
1.163 babel-types-6.26.0.tgz 6.26.0
1.164 babel-utils-0.6.10.tgz 0.6.10
1.165 babylon-5.8.38.tgz 5.8.38
1.166 babylon-6.18.0.tgz 6.18.0
1.167 backbone 1.1.2
 1.167.1 Available under license
1.168 backbone-1.1.2.tgz 1.1.2
1.169 backbone-1.4.0.tgz 1.4.0
1.170 backbone.paginator 2.0.1
 1.170.1 Available under license
1.171 Backgrid 0.3.5
 1.171.1 Available under license
1.172 balanced-match-0.4.2.tgz 0.4.2
1.173 balanced-match-1.0.0.tgz 1.0.0
1.174 base-0.11.2.tgz 0.11.2
1.175 base62-1.2.8.tgz 1.2.8
1.176 Base64-1.0.1.tgz 1.0.1
1.177 base64-js-1.3.1.tgz 1.3.1
1.178 batch-processor-1.0.0.tgz 1.0.0
1.179 batik-ext-1.10.jar 1.10
1.180 bcpkix-jdk15on-1.60.jar 1.60
1.181 bcpkix-jdk15on-1.64.jar 1.64
1.182 bcprov-jdk15on-1.55.jar 1.55

1.183 bcprov-jdk15on-1.60.jar 1.60
1.184 bcprov-jdk15on-1.64.jar 1.64
1.185 bcrypt-pbkdf-1.0.2.tgz 1.0.2
1.186 big.js-3.2.0.tgz 3.2.0
1.187 big.js-5.2.2.tgz 5.2.2
1.188 blob-util-1.3.3.tgz 1.3.3
1.189 block-stream-0.0.9.tgz 0.0.9
1.190 bluebird-3.5.0.tgz 3.5.0
1.191 bluebird-3.5.18.tgz 3.5.18
1.192 bluebird-3.7.2.tgz 3.7.2
 1.192.1 Available under license
1.193 brace-expansion-1.1.11.tgz 1.1.11
1.194 bridge-method-annotation-1.13.jar 1.13
1.195 browserslist-2.11.3.tgz 2.11.3
1.196 browserslist-4.8.7.tgz 4.8.7
 1.196.1 Available under license
1.197 bsh-2.0b6.jar 2.0b6
1.198 bson-3.10.2.jar 3.10.2
1.199 btf-1.2.jar 1.2
 1.199.1 Available under license
1.200 buffer-4.9.2.tgz 4.9.2
 1.200.1 Available under license
1.201 buffer-5.4.3.tgz 5.4.3
1.202 buffer-crc32-0.2.13.tgz 0.2.13
1.203 buffer-from-1.1.1.tgz 1.1.1
1.204 byte-buddy-1.10.8.jar 1.10.8
 1.204.1 Available under license
1.205 byte-buddy-1.7.9.jar 1.7.9
1.206 byte-buddy-1.9.10.jar 1.9.10
1.207 byte-buddy-1.9.11.jar 1.9.11
1.208 byte-buddy-agent-1.10.8.jar 1.10.8
 1.208.1 Available under license
1.209 c3p0-0.9.5.4.jar 0.9.5.4
 1.209.1 Available under license
1.210 cache-base-1.0.1.tgz 1.0.1
1.211 cachedir-1.3.0.tgz 1.3.0
1.212 caffeine-2.3.5.jar 2.3.5
1.213 caller-callsite-2.0.0.tgz 2.0.0
1.214 caller-path-2.0.0.tgz 2.0.0

1.215 callsites-2.0.0.tgz 2.0.0
1.216 callsites-3.1.0.tgz 3.1.0
1.217 camel-core-2.24.0.jar 2.24.0
1.217.1 Available under license
1.218 camel-http-common-2.24.0.jar 2.24.0
1.218.1 Available under license
1.219 camel-rabbitmq-2.24.0.jar 2.24.0
1.219.1 Available under license
1.220 camel-servlet-2.24.0.jar 2.24.0
1.220.1 Available under license
1.221 camel-spring-2.24.0.jar 2.24.0
1.221.1 Available under license
1.222 camelize-1.0.0.tgz 1.0.0
1.223 caniuuse-lite-1.0.30001027.tgz 1.0.30001027
1.223.1 Available under license
1.224 caniuuse-lite-1.0.30001030.tgz 1.0.30001030
1.224.1 Available under license
1.225 caseless-0.12.0.tgz 0.12.0
1.226 cglib-asm-1.0 1.0
1.226.1 Available under license
1.227 cglib-nodep-2.1_3.jar 2.1_3
1.228 cglib-nodep-2.2.2.jar 2.2.2
1.228.1 Available under license
1.229 chai-4.0.8.tgz 4.0.8
1.230 chai-jquery-1.1.38.tgz 1.1.38
1.231 chain-function-1.0.1.tgz 1.0.1
1.232 chalk-1.1.3.tgz 1.1.3
1.233 chalk-2.4.2.tgz 2.4.2
1.234 chalk-3.0.0.tgz 3.0.0
1.234.1 Available under license
1.235 chardet-0.7.0.tgz 0.7.0
1.236 check-more-types-2.24.0.tgz 2.24.0
1.237 checker-compat-qual-2.5.2.jar 2.5.2
1.238 checker-qual-2.0.0.jar 2.0.0
1.238.1 Available under license
1.239 checker-qual-2.10.0.jar 2.10.0
1.240 ci-info-1.6.0.tgz 1.6.0
1.241 ci-info-2.0.0.tgz 2.0.0
1.242 class-utils-0.3.6.tgz 0.3.6

1.243 classmate-1.3.4.jar 1.3.4
1.244 classmate-1.5.1.jar 1.5.1
 1.244.1 Available under license
1.245 classnames-2.2.5.tgz 2.2.5
1.246 classnames-2.2.6.tgz 2.2.6
1.247 clean-stack-2.2.0.tgz 2.2.0
 1.247.1 Available under license
1.248 cli-cursor-1.0.2.tgz 1.0.2
1.249 cli-cursor-2.1.0.tgz 2.1.0
1.250 cli-cursor-3.1.0.tgz 3.1.0
 1.250.1 Available under license
1.251 cli-spinners-0.1.2.tgz 0.1.2
1.252 cli-truncate-0.2.1.tgz 0.2.1
1.253 cli-width-2.2.0.tgz 2.2.0
1.254 client-java-7.0.0.jar 7.0.0
1.255 client-java-api-7.0.0.jar 7.0.0
1.256 client-runtime-1.6.4.jar 1.6.4
1.257 clipboard-2.0.4.tgz 2.0.4
1.258 code-frame-7.5.5.tgz 7.5.5
1.259 code-frame-7.8.3.tgz 7.8.3
 1.259.1 Available under license
1.260 code-point-at-1.1.0.tgz 1.1.0
1.261 codegen-0.6.8.jar 0.6.8
1.262 collection-visit-1.0.0.tgz 1.0.0
1.263 color-3.1.2.tgz 3.1.2
1.264 color-convert-1.9.3.tgz 1.9.3
1.265 color-convert-2.0.1.tgz 2.0.1
 1.265.1 Available under license
1.266 color-name-1.1.1.tgz 1.1.1
1.267 color-name-1.1.3.tgz 1.1.3
1.268 color-name-1.1.4.tgz 1.1.4
 1.268.1 Available under license
1.269 color-string-1.5.3.tgz 1.5.3
1.270 combined-stream-1.0.8.tgz 1.0.8
1.271 commander-2.15.1.tgz 2.15.1
1.272 commander-2.17.1.tgz 2.17.1
1.273 commander-2.19.0.tgz 2.19.0
1.274 commander-2.20.3.tgz 2.20.3
1.275 commander-3.0.2.tgz 3.0.2

- 1.276 commander-4.0.1.tgz 4.0.1**
 - 1.276.1 Available under license
- 1.277 common-tags-1.8.0.tgz 1.8.0**
- 1.278 commoner-0.10.8.tgz 0.10.8**
- 1.279 commons-beanutils-1.9.4.jar 1.9.4**
- 1.280 commons-codec-1.10.jar 1.10**
- 1.281 commons-codec-1.13.jar 1.13**
 - 1.281.1 Available under license
- 1.282 commons-codec-1.9.jar 1.9**
- 1.283 commons-collections-3.2.2.jar 3.2.2**
- 1.284 commons-collections4-4.1.jar 4.1**
- 1.285 commons-compress-1.19.jar 1.19**
 - 1.285.1 Available under license
- 1.286 commons-configuration-1.10.jar 1.10**
 - 1.286.1 Available under license
- 1.287 commons-configuration-1.8.jar 1.8**
- 1.288 commons-digester-2.1.jar 2.1**
- 1.289 commons-fileupload-1.4.jar 1.4**
 - 1.289.1 Available under license
- 1.290 commons-httpclient-3.1.jar 3.1**
 - 1.290.1 Available under license
- 1.291 commons-io-1.3.2.jar 1.3.2**
 - 1.291.1 Available under license
- 1.292 commons-io-2.4.jar 2.4**
- 1.293 commons-io-2.5.jar 2.5**
- 1.294 commons-io-2.6.jar 2.6**
- 1.295 commons-lang-2.6.jar 2.6**
- 1.296 commons-lang3-3.4.jar 3.4**
- 1.297 commons-lang3-3.7.jar 3.7**
- 1.298 commons-lang3-3.8.1.jar 3.8.1**
- 1.299 commons-lang3-3.9.jar 3.9**
 - 1.299.1 Available under license
- 1.300 commons-logging-1.0.4.jar 1.0.4**
- 1.301 commons-logging-1.1.3.jar 1.1.3**
- 1.302 commons-logging-1.2.jar 1.2**
- 1.303 commons-net-3.3.jar 3.3**
- 1.304 commons-pool-1.6.jar 1.6**
- 1.305 commons-text-1.8.jar 1.8**
 - 1.305.1 Available under license

1.306 commons-validator-1.5.1.jar 1.5.1
1.307 compass-mixins-0.12.10.tgz 0.12.10
1.308 component-classes-1.2.6.tgz 1.2.6
1.309 component-emitter-1.3.0.tgz 1.3.0
1.310 component-indexof-0.0.3.tgz 0.0.3
1.311 concat-map-0.0.1.tgz 0.0.1
1.312 concat-stream-1.6.2.tgz 1.6.2
1.313 concurrent-1.3.4.jar 1.3.4
1.314 convert-source-map-1.7.0.tgz 1.7.0
 1.314.1 Available under license
1.315 converter-jackson-2.4.0.jar 2.4.0
1.316 copy-descriptor-0.1.1.tgz 0.1.1
1.317 core-js-1.2.7.tgz 1.2.7
1.318 core-js-2.5.1.tgz 2.5.1
1.319 core-js-2.6.11.tgz 2.6.11
 1.319.1 Available under license
1.320 core-util-is-1.0.2.tgz 1.0.2
1.321 cosmiconfig-5.2.1.tgz 5.2.1
1.322 cosmiconfig-6.0.0.tgz 6.0.0
 1.322.1 Available under license
1.323 create-emotion-9.2.12.tgz 9.2.12
1.324 create-react-class-15.6.3.tgz 15.6.3
1.325 create-react-context-0.2.3.tgz 0.2.3
1.326 create-react-context-0.3.0.tgz 0.3.0
1.327 cross-env-5.0.5.tgz 5.0.5
1.328 cross-spawn-3.0.1.tgz 3.0.1
1.329 cross-spawn-5.1.0.tgz 5.1.0
1.330 cross-spawn-6.0.5.tgz 6.0.5
1.331 cross-spawn-7.0.1.tgz 7.0.1
 1.331.1 Available under license
1.332 css-animation-1.6.1.tgz 1.6.1
1.333 css-color-keywords-1.0.0.tgz 1.0.0
1.334 css-to-react-native-2.3.2.tgz 2.3.2
1.335 csstype-2.6.9.tgz 2.6.9
 1.335.1 Available under license
1.336 cypress-3.4.1.tgz 3.4.1
1.337 cypress-file-upload-3.1.2.tgz 3.1.2
1.338 d3 3.5.17
 1.338.1 Available under license

- 1.339 d3-3.5.17.min.js 3.5.17**
- 1.340 d3-3.5.17.tgz 3.5.17**
- 1.341 d3-array-1.2.1.tgz 1.2.1**
- 1.342 d3-axis-1.0.8.tgz 1.0.8**
- 1.343 d3-brush-1.0.4.tgz 1.0.4**
- 1.344 d3-collection-1.0.7.tgz 1.0.7**
- 1.345 d3-color-1.4.0.tgz 1.4.0**
- 1.346 d3-dispatch-1.0.6.tgz 1.0.6**
 - 1.346.1 Available under license
- 1.347 d3-drag-1.2.5.tgz 1.2.5**
 - 1.347.1 Available under license
- 1.348 d3-ease-1.0.6.tgz 1.0.6**
 - 1.348.1 Available under license
- 1.349 d3-format-1.3.0.tgz 1.3.0**
- 1.350 d3-hierarchy-1.1.6.tgz 1.1.6**
- 1.351 d3-interpolate-1.3.2.tgz 1.3.2**
- 1.352 d3-interpolate-1.4.0.tgz 1.4.0**
 - 1.352.1 Available under license
- 1.353 d3-path-1.0.9.tgz 1.0.9**
 - 1.353.1 Available under license
- 1.354 d3-scale-1.0.6.tgz 1.0.6**
- 1.355 d3-scale-2.1.0.tgz 2.1.0**
- 1.356 d3-selection-1.3.0.tgz 1.3.0**
- 1.357 d3-shape-1.2.0.tgz 1.2.0**
- 1.358 d3-time-1.1.0.tgz 1.1.0**
- 1.359 d3-time-format-2.2.3.tgz 2.2.3**
 - 1.359.1 Available under license
- 1.360 d3-timer-1.0.10.tgz 1.0.10**
 - 1.360.1 Available under license
- 1.361 d3-transition-1.1.1.tgz 1.1.1**
- 1.362 dashdash-1.14.1.tgz 1.14.1**
- 1.363 database-commons-1.12.2.jar 1.12.2**
- 1.364 date-fns-1.30.1.tgz 1.30.1**
- 1.365 Debian ISO 10**
 - 1.365.1 GNU GENERAL PUBLIC LICENSE Version 2
 - 1.365.2 GNU LESSER GENERAL PUBLIC LICENSE Version 2.1
 - 1.365.3 GNU GENERAL PUBLIC LICENSE Version 3
 - 1.365.4 GNU LESSER GENERAL PUBLIC LICENSE Version 3
- 1.366 debounce-1.2.0.tgz 1.2.0**

1.367 debug-2.6.9.tgz 2.6.9
1.368 debug-3.1.0.tgz 3.1.0
1.369 debug-3.2.6.tgz 3.2.6
1.370 debug-4.1.1.tgz 4.1.1
1.371 deep-diff-0.3.4.tgz 0.3.4
1.372 deep-diff-0.3.8.tgz 0.3.8
1.373 deep-is-0.1.3.tgz 0.1.3
1.374 define-property-0.2.5.tgz 0.2.5
1.375 define-property-1.0.0.tgz 1.0.0
1.376 define-property-2.0.2.tgz 2.0.2
1.377 defined-1.0.0.tgz 1.0.0
1.378 delayed-stream-1.0.0.tgz 1.0.0
1.379 delegate-3.2.0.tgz 3.2.0
1.380 detective-4.7.1.tgz 4.7.1
1.381 dirgra-0.3.jar 0.3
1.382 disruptor-3.4.2.jar 3.4.2
1.383 docker-ubuntu-vnc-desktop 0.3
 1.383.1 Available under license
1.384 doctrine-1.5.0.tgz 1.5.0
1.385 doctrine-2.1.0.tgz 2.1.0
1.386 doctrine-3.0.0.tgz 3.0.0
1.387 dom-align-1.10.4.tgz 1.10.4
 1.387.1 Available under license
1.388 dom-css-2.1.0.tgz 2.1.0
1.389 dom-helpers-3.4.0.tgz 3.4.0
1.390 dom4j-1.6.1.jar 1.6.1
1.391 dom4j-2.1.1.jar 2.1.1
1.392 dozer-core-6.5.0.jar 6.5.0
 1.392.1 Available under license
1.393 dozer-spring4-6.5.0.jar 6.5.0
 1.393.1 Available under license
1.394 duct-tape-1.0.8.jar 1.0.8
1.395 ecc-jsbn-0.1.2.tgz 0.1.2
1.396 ecj-4.3.1.jar 4.3.1
 1.396.1 Available under license
1.397 ehcache-core-2.6.11.jar 2.6.11
1.398 electron-to-chromium-1.3.288.tgz 1.3.288
1.399 electron-to-chromium-1.3.354.tgz 1.3.354
 1.399.1 Available under license

1.400 electron-to-chromium-1.3.361.tgz 1.3.361
1.400.1 Available under license

1.401 elegant-spinner-1.0.1.tgz 1.0.1

1.402 element-resize-detector-1.2.1.tgz 1.2.1
1.402.1 Available under license

1.403 emoji-regex-7.0.3.tgz 7.0.3

1.404 emoji-regex-8.0.0.tgz 8.0.0
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1.405 emojis-list-2.1.0.tgz 2.1.0

1.406 emotion-9.2.12.tgz 9.2.12

1.407 encoding-0.1.12.tgz 0.1.12

1.408 end-of-stream-1.4.4.tgz 1.4.4

1.409 envify-3.4.1.tgz 3.4.1

1.410 error-ex-1.3.2.tgz 1.3.2

1.411 error_prone_annotations-2.1.3.jar 2.1.3

1.412 error_prone_annotations-2.3.4.jar 2.3.4

1.413 es5-shim-4.5.13.tgz 4.5.13

1.414 es6-promise-2.3.0.tgz 2.3.0

1.415 esapi-2.1.0.1.jar 2.1.0.1

1.416 escape-string-regexp-1.0.5.tgz 1.0.5

1.417 eslint-5.16.0.tgz 5.16.0

1.418 eslint-scope-4.0.3.tgz 4.0.3

1.419 eslint-utils-1.4.3.tgz 1.4.3

1.420 eslint-visitor-keys-1.1.0.tgz 1.1.0

1.421 espree-5.0.1.tgz 5.0.1

1.422 esprima-3.1.3.tgz 3.1.3

1.423 esprima-4.0.1.tgz 4.0.1

1.424 esprima-fb-15001.1.0-dev-harmony-fb.tgz 15001.1.0-dev-harmony-fb

1.425 esquery-1.0.1.tgz 1.0.1

1.426 esquery-1.1.0.tgz 1.1.0
1.426.1 Available under license

1.427 esrecurse-4.2.1.tgz 4.2.1

1.428 estraverse-4.3.0.tgz 4.3.0

1.429 esutils-2.0.3.tgz 2.0.3

1.430 execa-0.10.0.tgz 0.10.0

1.431 execa-0.7.0.tgz 0.7.0
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1.432 execa-1.0.0.tgz 1.0.0

1.433 execa-2.1.0.tgz 2.1.0

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1.434 executable-4.1.1.tgz 4.1.1

1.435 exit-hook-1.1.1.tgz 1.1.1

1.436 expand-brackets-2.1.4.tgz 2.1.4

1.437 exports-loader-0.7.0.tgz 0.7.0

1.438 extend-3.0.2.tgz 3.0.2

1.439 extend-shallow-2.0.1.tgz 2.0.1

1.440 extend-shallow-3.0.2.tgz 3.0.2

1.441 external-editor-3.1.0.tgz 3.1.0

1.442 extglob-2.0.4.tgz 2.0.4

1.443 extract-zip-1.6.7.tgz 1.6.7

1.444 extsprintf-1.3.0.tgz 1.3.0

1.445 failureaccess-1.0.1.jar 1.0.1

1.446 fast-deep-equal-1.1.0.tgz 1.1.0

1.447 fast-deep-equal-2.0.1.tgz 2.0.1

1.448 fast-deep-equal-3.1.1.tgz 3.1.1

1.448.1 Available under license

1.449 fast-json-stable-stringify-2.0.0.tgz 2.0.0

1.450 fast-json-stable-stringify-2.1.0.tgz 2.1.0

1.450.1 Available under license

1.451 fast-levenshtein-2.0.6.tgz 2.0.6

1.452 FastInfoset-1.2.15.jar 1.2.15

1.453 fault-1.0.4.tgz 1.0.4

1.453.1 Available under license

1.454 fbemitter-2.1.1.tgz 2.1.1

1.455 fbjs-0.6.1.tgz 0.6.1

1.456 fbjs-0.8.17.tgz 0.8.17

1.457 fd-slicer-1.0.1.tgz 1.0.1

1.458 fd-slicer-1.1.0.tgz 1.1.0

1.459 figures-1.7.0.tgz 1.7.0

1.460 figures-2.0.0.tgz 2.0.0

1.461 figures-3.2.0.tgz 3.2.0

1.461.1 Available under license

1.462 file-entry-cache-5.0.1.tgz 5.0.1

1.463 find-root-1.1.0.tgz 1.1.0

1.464 flat-cache-2.0.1.tgz 2.0.1

1.465 flatted-2.0.1.tgz 2.0.1

1.466 flux-3.1.3.tgz 3.1.3

1.467 flyway-core-4.0.3.jar 4.0.3

1.468 focus-trap-2.4.6.tgz 2.4.6
1.469 follow-redirects-1.5.10.tgz 1.5.10
1.470 for-in-1.0.2.tgz 1.0.2
1.471 for-own-1.0.0.tgz 1.0.0
1.472 forever-agent-0.6.1.tgz 0.6.1
1.473 form-data-2.3.3.tgz 2.3.3
1.474 format-0.2.2.tgz 0.2.2
1.475 fragment-cache-0.2.1.tgz 0.2.1
1.476 fs-extra-5.0.0.tgz 5.0.0
1.477 fs-extra-8.1.0.tgz 8.1.0
1.478 fs-minipass-1.2.5.tgz 1.2.5
1.479 fs.realpath-1.0.0.tgz 1.0.0
1.480 functional-red-black-tree-1.0.1.tgz 1.0.1
1.481 gax-1.44.0.jar 1.44.0
1.482 gax-grpc-1.44.0.jar 1.44.0
1.483 generator-7.8.4.tgz 7.8.4
 1.483.1 Available under license
1.484 generex-1.0.1.jar 1.0.1
1.485 generex-1.0.2.jar 1.0.2
1.486 geronimo-jta_1.1_spec-1.1.1.jar 1.1.1
1.487 get-stream-3.0.0.tgz 3.0.0
1.488 get-stream-4.1.0.tgz 4.1.0
1.489 get-stream-5.1.0.tgz 5.1.0
 1.489.1 Available under license
1.490 get-value-2.0.6.tgz 2.0.6
1.491 getos-3.1.1.tgz 3.1.1
1.492 getpass-0.1.7.tgz 0.1.7
1.493 github.com/asaskevich/govalidator-v10 v10
 1.493.1 Available under license
1.494 github.com/asaskevich/govalidator-v9 v9
1.495 github.com/aws/aws-sdk-go/aws-v1.15.1 v1.15.1
1.496 github.com/aws/aws-sdk-go/aws/awserr-v1.15.1 v1.15.1
1.497 github.com/aws/aws-sdk-go/aws/awsutil-v1.15.1 v1.15.1
1.498 github.com/aws/aws-sdk-go/aws/client-v1.15.1 v1.15.1
1.499 github.com/aws/aws-sdk-go/aws/client/metadata-v1.15.1 v1.15.1
1.500 github.com/aws/aws-sdk-go/aws/corehandlers-v1.15.1 v1.15.1
1.501 github.com/aws/aws-sdk-go/aws/credentials-v1.15.1 v1.15.1
1.502 github.com/aws/aws-sdk-go/aws/credentials/ec2rolecreds-v1.15.1 v1.15.1
1.503 github.com/aws/aws-sdk-go/aws/credentials/endpointcreds-v1.15.1 v1.15.1

1.504 github.com/aws/aws-sdk-go/aws/credentials/stscreds-v1.15.1 v1.15.1
1.505 github.com/aws/aws-sdk-go/aws/csm-v1.15.1 v1.15.1
1.506 github.com/aws/aws-sdk-go/aws/defaults-v1.15.1 v1.15.1
1.507 github.com/aws/aws-sdk-go/aws/ec2metadata-v1.15.1 v1.15.1
1.508 github.com/aws/aws-sdk-go/aws/endpoints-v1.15.1 v1.15.1
1.509 github.com/aws/aws-sdk-go/aws/request-v1.15.1 v1.15.1
1.510 github.com/aws/aws-sdk-go/aws/session-v1.15.1 v1.15.1
1.511 github.com/aws/aws-sdk-go/aws/signer/v4-v1.15.1 v1.15.1
1.512 github.com/aws/aws-sdk-go/awstesting-v1.15.1 v1.15.1
1.513 github.com/aws/aws-sdk-go/awstesting/mock-v1.15.1 v1.15.1
1.514 github.com/aws/aws-sdk-go/awstesting/unit-v1.15.1 v1.15.1
1.515 github.com/aws/aws-sdk-go/internal/sdkio-v1.15.1 v1.15.1
1.516 github.com/aws/aws-sdk-go/internal/sdkrand-v1.15.1 v1.15.1
1.517 github.com/aws/aws-sdk-go/internal/sdkuri-v1.15.1 v1.15.1
1.518 github.com/aws/aws-sdk-go/internal/shareddefaults-v1.15.1 v1.15.1
1.519 github.com/aws/aws-sdk-go/private/protocol-v1.15.1 v1.15.1
1.520 github.com/aws/aws-sdk-go/private/protocol/ec2query-v1.15.1 v1.15.1
1.521 github.com/aws/aws-sdk-go/private/protocol/eventstream-v1.15.1 v1.15.1
1.522 github.com/aws/aws-sdk-go/private/protocol/eventstream/eventstreamapi-v1.15.1 v1.15.1
1.523 github.com/aws/aws-sdk-go/private/protocol/eventstream/eventstreamtest-v1.15.1 v1.15.1
1.524 github.com/aws/aws-sdk-go/private/protocol/jsonrpc-v1.15.1 v1.15.1
1.525 github.com/aws/aws-sdk-go/private/protocol/query-v1.15.1 v1.15.1
1.526 github.com/aws/aws-sdk-go/private/protocol/query/queryutil-v1.15.1 v1.15.1
1.527 github.com/aws/aws-sdk-go/private/protocol/rest-v1.15.1 v1.15.1
1.528 github.com/aws/aws-sdk-go/private/protocol/restjson-v1.15.1 v1.15.1
1.529 github.com/aws/aws-sdk-go/private/protocol/restxml-v1.15.1 v1.15.1
1.530 github.com/aws/aws-sdk-go/private/protocol/xml/xmlutil-v1.15.1 v1.15.1
1.531 github.com/aws/aws-sdk-go/service/s3-v1.15.1 v1.15.1
1.532 github.com/aws/aws-sdk-go/service/s3/s3iface-v1.15.1 v1.15.1
1.533 github.com/aws/aws-sdk-go/service/s3/s3manager-v1.15.1 v1.15.1
1.534 github.com/aws/aws-sdk-go/service/sts-v1.15.1 v1.15.1
1.535 github.com/beorn7/perks/quantile-v1.0.1 v1.0.1
1.536 github.com/davecgh/go-spew/spew-v1.1.0 v1.1.0
1.537 github.com/davecgh/go-spew/spew-v1.1.1 v1.1.1
1.538 github.com/erggo/datafiller-26c75631fdca2e4b6e72f78406a4c368f9fe433e
26c75631fdca2e4b6e72f78406a4c368f9fe433e
1.539 github.com/fatih/camelcase-v1.0.0 v1.0.0

1.540 github.com/fsnotify/fsnotify-v1.4.7 v1.4.7

1.541 github.com/globalsign/mgo/bson-
eeefdec41b842af6dc652aeea4026e8403e62df
eeefdec41b842af6dc652aeea4026e8403e62df

1.542 github.com/globalsign/mgo/internal/json-
eeefdec41b842af6dc652aeea4026e8403e62df
eeefdec41b842af6dc652aeea4026e8403e62df

1.543 github.com/go-chi/chi-v3.3.4 v3.3.4

1.544 github.com/go-ini/ini-v1.38.1 v1.38.1

1.545 github.com/go-openapi/analysis-v0.19.7 v0.19.7

1.545.1 Available under license

1.546 github.com/go-openapi/analysis/internal-v0.19.7 v0.19.7

1.547 github.com/go-openapi/errors-0.16.0 0.16.0

1.548 github.com/go-openapi/errors-v0.19.3 v0.19.3

1.548.1 Available under license

1.549 github.com/go-openapi/jsonpointer-v0.19.3 v0.19.3

1.550 github.com/go-openapi/jsonreference-v0.19.3 v0.19.3

1.550.1 Available under license

1.551 github.com/go-openapi/loads-v0.19.4 v0.19.4

1.552 github.com/go-openapi/runtime-v0.19.11 v0.19.11

1.552.1 Available under license

1.553 github.com/go-openapi/spec-v0.19.6 v0.19.6

1.553.1 Available under license

1.554 github.com/go-openapi/strfmt-0.16.0 0.16.0

1.555 github.com/go-openapi/strfmt-v0.19.4 v0.19.4

1.555.1 Available under license

1.556 github.com/go-openapi/swag-0.16.0 0.16.0

1.557 github.com/go-openapi/validate-0.16.0 0.16.0

1.558 github.com/go-stack/stack-v1.8.0 v1.8.0

1.559 github.com/gobuffalo/envy-v1.7.0 v1.7.0

1.560 github.com/gobuffalo/genny-v0.1.1 v0.1.1

1.561 github.com/gobuffalo/gogen-v0.1.1 v0.1.1

1.562 github.com/gobuffalo/gogen/goimports-v0.1.1 v0.1.1

1.563 github.com/gobuffalo/gogen/gomods-v0.1.1 v0.1.1

1.564 github.com/gobuffalo/logger-v1.0.0 v1.0.0

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1.565 github.com/gobuffalo/mapi-v1.0.2 v1.0.2

1.566 github.com/gobuffalo/packd-v0.1.0 v0.1.0

1.567 github.com/gobuffalo/packr/v2-v2.2.0 v2.2.0

1.568 github.com/gobuffalo/packr/v2/file-v2.2.0 v2.2.0
1.569 github.com/gobuffalo/packr/v2/file/resolver-v2.2.0 v2.2.0
1.570 github.com/gobuffalo/packr/v2/file/resolver/encoding/hex-v2.2.0 v2.2.0
1.571 github.com/gobuffalo/packr/v2/jam/parser-v2.2.0 v2.2.0
1.572 github.com/gobuffalo/packr/v2/plog-v2.2.0 v2.2.0
1.573 github.com/gobuffalo/syncx-v0.1.0 v0.1.0
1.574 github.com/golang/protobuf/proto-v1.3.3
d23c5127dc24889085f8ccea5c9d560a57a879d8
1.575 github.com/golang/protobuf/ptypes-v1.3.3
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1.576 github.com/golang/protobuf/ptypes/any-v1.3.3
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1.577 github.com/golang/protobuf/ptypes/duration-v1.3.3
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1.578 github.com/golang/protobuf/ptypes/timestamp-v1.3.3
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1.579 github.com/golang/snappy-v0.0.1 v0.0.1
1.580 github.com/golang/text/internal/language-v0.3.2 v0.3.2
1.581 github.com/golang/text/internal/language/compact-v0.3.2 v0.3.2
1.582 github.com/google/go-cmp/cmp-v0.2.0 v0.2.0
1.583 github.com/google/go-cmp/cmp/internal/diff-v0.2.0 v0.2.0
1.584 github.com/google/go-cmp/cmp/internal/function-v0.2.0 v0.2.0
1.585 github.com/google/go-cmp/cmp/internal/value-v0.2.0 v0.2.0
1.586 github.com/google/uuid-1.0.0 1.0.0
1.587 github.com/gorilla/context-v1.1.1 v1.1.1
1.588 github.com/gorilla/mux-v1.6.2 v1.6.2
1.589 github.com/gorilla/mux-v1.7.3 v1.7.3
1.590 github.com/hashicorp/hcl-v1.0.0 v1.0.0
 1.590.1 Available under license
1.591 github.com/hashicorp/hcl/hcl/ast-v1.0.0 v1.0.0
1.592 github.com/hashicorp/hcl/hcl/parser-v1.0.0 v1.0.0
1.593 github.com/hashicorp/hcl/hcl/printer-v1.0.0 v1.0.0
1.594 github.com/hashicorp/hcl/hcl/scanner-v1.0.0 v1.0.0
1.595 github.com/hashicorp/hcl/hcl/strconv-v1.0.0 v1.0.0
1.596 github.com/hashicorp/hcl/hcl/token-v1.0.0 v1.0.0
1.597 github.com/hashicorp/hcl/json/parser-v1.0.0 v1.0.0
1.598 github.com/hashicorp/hcl/json/scanner-v1.0.0 v1.0.0
1.599 github.com/hashicorp/hcl/json/token-v1.0.0 v1.0.0
1.600 github.com/jlaffaye/ftp-2403248fa8cc9f7909862627aa7337f13f8e0bf1
2403248fa8cc9f7909862627aa7337f13f8e0bf1

- 1.601 github.com/jmespath/go-jmespath
c2b33e8439af944379acb9c3a5fe0bc44bd8a5
- 1.602 github.com/joho/godotenv-v1.3.0 v1.3.0
- 1.603 github.com/karrick/godirwalk-v1.10.3 v1.10.3
- 1.604 github.com/klauspost/compress/fse-v1.9.5 v1.9.5
- 1.605 github.com/klauspost/compress/huff0-v1.9.5 v1.9.5
- 1.606 github.com/klauspost/compress/snappy-v1.9.5 v1.9.5
 - 1.606.1 Available under license
- 1.607 github.com/klauspost/compress/zstd-v1.9.5 v1.9.5
 - 1.607.1 Available under license
- 1.608 github.com/klauspost/compress/zstd/internal/xxhash-v1.9.5 v1.9.5
 - 1.608.1 Available under license
- 1.609 github.com/konsorten/go-windows-terminal-sequences-v1.0.2 v1.0.2
- 1.610 github.com/kr/pretty-v0.1.0 v0.1.0
- 1.611 github.com/kr/text-v0.1.0 v0.1.0
- 1.612 github.com/lib/pq-v1.3.0 99274577be97ac9b1d95a2d61d566dc9b7cc6a54
 - 1.612.1 Available under license
- 1.613 github.com/lib/pq/oid-v1.3.0 99274577be97ac9b1d95a2d61d566dc9b7cc6a54
- 1.614 github.com/magiconair/properties-v1.8.0 v1.8.0
- 1.615 github.com/magiconair/properties-v1.8.1 v1.8.1
- 1.616 github.com/magiconair/properties/assert-v1.8.0 v1.8.0
- 1.617 github.com/magiconair/properties/assert-v1.8.1 v1.8.1
- 1.618 github.com/mailru/easyjson/buffer-v0.7.0 v0.7.0
- 1.619 github.com/mailru/easyjson/jlexer-v0.7.0 v0.7.0
- 1.620 github.com/mailru/easyjson/jwriter-v0.7.0 v0.7.0
- 1.621 github.com/markbates/oncer 74cf68f7e72ed26f7a701d975dbcee92cd324cbb
 - 1.621.1 Available under license
- 1.622 github.com/markbates/safe-v1.0.1 v1.0.1
- 1.623 github.com/mattproud/golang_protobuf_extensions/pbutil-v1.0.1 v1.0.1
- 1.624 github.com/mitchellh/mapstructure-v1.1.2 v1.1.2
- 1.625 github.com/montanaflynn/stats-0.3.0 0.3.0
- 1.626 github.com/pallinder/go-randomdata-v1.2.0 v1.2.0
- 1.627 github.com/pelletier/go-toml-v1.4.0
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- 1.628 github.com/pelletier/go-toml-v1.5.0
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- 1.629 github.com/pkg/errors-v0.8.1 v0.8.1
- 1.630 github.com/pmezard/go-difflib/difflib-v1.0.0 v1.0.0
- 1.631 github.com/prometheus/client_golang/prometheus-v1.1.0 v1.1.0

1.632 github.com/prometheus/client_golang/prometheus/internal-v1.1.0 v1.1.0

1.633 github.com/prometheus/client_golang/prometheus/promhttp-v1.1.0 v1.1.0

1.634 github.com/prometheus/client_model-go-v0.2.0
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1.635 github.com/prometheus/common/expfmt-v0.9.1
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1.636 github.com/prometheus/common/internal/bitbucket.org/ww/goautoneg-v0.9.1 d978bcb1309602d68bb4ba69cf3f8ed900e07308

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6d489fc7f1d9cd890a250f3ea3431b1744b9623f

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1.640 github.com/prometheus/procfs/internal/util-v0.0.8
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1.641 github.com/puerkitobio/purell-v1.1.1 v1.1.1

1.642 github.com/puerkitobio/urlesc-
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1.643 github.com/rogppe/go-internal/modfile-v1.3.0 v1.3.0

1.644 github.com/rogppe/go-internal/module-v1.3.0 v1.3.0

1.645 github.com/rogppe/go-internal/semver-v1.3.0 v1.3.0

1.646 github.com/sirupsen/logrus-v1.4.2 v1.4.2

1.647 github.com/spf13/afero-v1.2.2 v1.2.2

1.648 github.com/spf13/afero/mem-v1.2.2 v1.2.2

1.649 github.com/spf13/cast-v1.3.0 v1.3.0

1.650 github.com/spf13/jwalterweatherman-v1.1.0 v1.1.0

1.651 github.com/spf13/pflag-v1.0.5 v1.0.5

1.652 github.com/spf13/viper-v1.4.0 b5bf975e5823809fb22c7644d008757f78a4259e

1.653 github.com/streadway/amqp-e5adc2ada8b8efff032bf61173a233d143e9318e
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1.654 github.com/stretchr/testify/assert-v1.3.0 v1.3.0

1.655 github.com/stretchr/testify/require-v1.3.0 v1.3.0

1.656 github.com/tidwall/pretty-v1.0.0 v1.0.0

1.657 github.com/xdg/scram-7eeb5667e42c09cb51bf7b7c28aea8c56767da90
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1.658 github.com/xdg/stringprep 73f8eece6fdcd902c185bf651de50f3828bed5ed

1.659 [glob](https://github.com/glob)-7.1.2.tgz 7.1.2

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1.667 go.mongodb.org/mongo-driver/bson-v1.3.0 v1.3.0
1.668 go.mongodb.org/mongo-driver/bson/bsoncodec-v1.3.0 v1.3.0
1.669 go.mongodb.org/mongo-driver/bson/bsonoptions-v1.3.0 v1.3.0
1.670 go.mongodb.org/mongo-driver/bson/bsonrw-v1.3.0 v1.3.0
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1.672 go.mongodb.org/mongo-driver/bson/primitive-v1.3.0 v1.3.0
1.673 go.mongodb.org/mongo-driver/x/bsonx/bsoncore-v1.3.0 v1.3.0
1.674 golang.org/x/crypto/curve25519-
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1.679 golang.org/x/crypto/pbkdf2-20be4c3c3ed52bfccdb2d59a412ee1a936d175a7
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1.681 golang.org/x/crypto/poly1305-c126467f60eb25f8f27e5a981f32a87e3965053f
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1.683 golang.org/x/crypto/ssh/terminal-
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1.686 golang.org/x/net/context-60506f45cf65977eb3a9c6e30f995f54a721c271
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1.693 golang.org/x/text/collate/build-v0.3.2 v0.3.2

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1.695 golang.org/x/text/encoding/charmap-v0.3.0 v0.3.0

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1.697 golang.org/x/text/encoding/internal/identifier-v0.3.0 v0.3.0

1.698 golang.org/x/text/encoding/unicode-v0.3.0 v0.3.0

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1.702 golang.org/x/text/internal/tag-v0.3.2 v0.3.2

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1.707 golang.org/x/text/runes-v0.3.0 v0.3.0

1.708 golang.org/x/text/secure/bidirule-v0.3.2 v0.3.2

1.709 golang.org/x/text/transform-v0.3.0 v0.3.0

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1.714 golang.org/x/text/unicode/norm-v0.3.2 v0.3.2
1.715 golang.org/x/text/unicode/rangetable-v0.3.2 v0.3.2
1.716 golang.org/x/text/width-v0.3.2 v0.3.2
1.717 golang.org/x/tools/go/ast/astutil-gopls/v0.1.0 gopls/v0.1.0
1.718 golang.org/x/tools/go/gcexportdata-gopls/v0.1.0 gopls/v0.1.0
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1.723 golang.org/x/tools/imports-gopls/v0.1.0 gopls/v0.1.0
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1.740 [google-auth-library-credentials-0.15.0.jar](https://github.com/google/google-auth-library-credentials) 0.15.0
1.741 [google-auth-library-oauth2-http-0.15.0.jar](https://github.com/google/google-auth-library-oauth2-http) 0.15.0
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1.743 google-cloud-core-grpc-1.70.0.jar 1.70.0
1.744 google-cloud-monitoring-1.70.0.jar 1.70.0
1.745 google-http-client-1.17.0-rc.jar 1.17.0-rc
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1.756 google-oauth-client-1.20.0.jar 1.20.0
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1.825 hibernate-validator-5.3.6.Final.jar 5.3.6.Final

1.826 hibernate-validator-5.4.2.Final.jar 5.4.2.Final

1.827 hibernate-validator-6.0.18.Final.jar 6.0.18.Final

1.828 hibernate-validator-annotation-processor-4.1.0.Final.jar 4.1.0.Final

1.829 highlight-7.5.0.tgz 7.5.0

1.830 highlight-7.8.3.tgz 7.8.3

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1.831 highlight.js-9.12.0.tgz 9.12.0

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1.833 HikariCP-java7-2.4.13.jar 2.4.13
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1.835 history-4.7.2.tgz 4.7.2
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1.837 hk2-locator-2.5.0-b32.jar 2.5.0-b32
1.838 hk2-utils-2.5.0-b32.jar 2.5.0-b32
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1.850 httpclient-4.5.9.jar 4.5.9
1.851 httpclient-4.5.jar 4.5
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1.932 jackrabbit-jcr-commons-1.2.2.jar 1.2.2

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1.937 jackson-coreutils-1.9.jar 1.9
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1.942 jackson-dataformat-yaml-2.10.0.jar 2.10.0
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1.945 jackson-datatype-joda-2.10.0.jar 2.10.0
1.946 jackson-datatype-jsr310-2.10.2.jar 2.10.2
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1.951 jakarta.annotation-api-1.3.5.jar 1.3.5
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1.952 jakarta.validation-api-2.0.2.jar 2.0.2
1.953 jakarta.xml.bind-api-2.3.2.jar 2.3.2
1.954 jandex-2.0.0.Final.jar 2.0.0.Final
1.955 jandex-2.0.5.Final.jar 2.0.5.Final
1.956 java-jwt-3.3.0.jar 3.3.0
1.957 java-xmlbuilder-0.4.jar 0.4
1.958 javassist-3.12.1.GA.jar 3.12.1.GA
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1.959 javassist-3.21.0-GA.jar 3.21.0-GA
1.960 javax.activation-api-1.2.0.jar 1.2.0
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- 1.961 javax.annotation-api-1.3.2.jar 1.3.2**
 - 1.961.1 Available under license
- 1.962 javax.el-3.0.0.jar 3.0.0**
 - 1.962.1 Available under license
- 1.963 javax.inject-1.jar 1**
 - 1.963.1 Available under license
- 1.964 javax.inject-2.5.0-b32.jar 2.5.0-b32**
- 1.965 javax.json-1.0.4.jar 1.0.4**
- 1.966 javax.json-api-1.0.jar 1.0**
- 1.967 javax.mail-1.5.6.jar 1.5.6**
 - 1.967.1 Available under license
- 1.968 javax.persistence-api-2.2.jar 2.2**
 - 1.968.1 Available under license
- 1.969 javax.servlet-api-3.1.0.jar 3.1.0**
 - 1.969.1 Available under license
- 1.970 javax.transaction-api-1.2.jar 1.2**
 - 1.970.1 Available under license
- 1.971 javax.ws.rs-api-2.0.1.jar 2.0.1**
- 1.972 jaxb-api-2.1.jar 2.1**
- 1.973 jaxb-api-2.3.1.jar 2.3.1**
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- 1.974 jaxb-core-2.1.14.jar 2.1.14**
- 1.975 jaxb-core-2.3.0.jar 2.3.0**
- 1.976 jaxb-impl-2.1.jar 2.1**
 - 1.976.1 Available under license
- 1.977 jaxb-impl-2.3.0.jar 2.3.0**
- 1.978 jaxb-runtime-2.3.1.jar 2.3.1**
- 1.979 jaxb2-basics-runtime-0.6.4.jar 0.6.4**
- 1.980 jaxen-1.1.6.jar 1.1.6**
- 1.981 jboss-logging-3.3.2.Final.jar 3.3.2.Final**
- 1.982 jboss-logging-3.4.1.Final.jar 3.4.1.Final**
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- 1.983 jboss-transaction-api_1.2_spec-1.0.1.Final.jar 1.0.1.Final**
- 1.984 jboss-transaction-api_1.2_spec-1.1.1.Final.jar 1.1.1.Final**
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- 1.985 jcip-annotations-1.0-1.jar 1.0-1**
- 1.986 jcip-annotations-1.0.jar 1.0**
- 1.987 jcl-over-slf4j-1.7.26.jar 1.7.26**
- 1.988 jclouds-compute-1.6.0.jar 1.6.0**

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1.991 jclouds-scriptbuilder-1.6.0.jar 1.6.0
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1.993 jcodings-1.0.41.jar 1.0.41
1.994 jcommander-1.35.jar 1.35
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1.996 jdbc-1.12.2.jar 1.12.2
1.997 jdo-api-3.0.1.jar 3.0.1
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1.1004 jffi-1.2.18.jar 1.2.18
1.1005 jgroups-3.6.10.Final.jar 3.6.10.Final
1.1006 jkeylockmanager-1.1.0.jar 1.1.0
1.1007 jmespath-java-1.11.125.jar 1.11.125
1.1008 jmespath-java-1.11.538.jar 1.11.538
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1.1088 kubernetes-model-1.0.67.jar 1.0.67

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1.1779 validator-11.0.0.tgz 11.0.0

1.1780 value-equal-0.4.0.tgz 0.4.0

1.1781 value-equal-1.0.1.tgz 1.0.1

1.1782 velocity-1.7.jar 1.7

1.1783 velocity-engine-core-2.1.jar 2.1
1.1783.1 Available under license

1.1784 velocity-engine-scripting-2.1.jar 2.1
1.1784.1 Available under license

1.1785 verror-1.10.0.tgz 1.10.0

1.1786 visible-assertions-2.1.2.jar 2.1.2

1.1787 void-elements-2.0.1.tgz 2.0.1

1.1788 vsphere-automation-sdk-java 6.8.7
1.1788.1 Available under license

1.1789 w3c-xmlserializer-1.1.2.tgz 1.1.2

1.1790 warning 4.0.3
1.1790.1 Available under license

1.1791 warning-3.0.0.tgz 3.0.0
1.1792 warning-4.0.3.tgz 4.0.3
1.1793 web-socket-js 1.0.0
1.1794 whatwg-fetch-0.9.0.tgz 0.9.0
1.1795 whatwg-fetch-3.0.0.tgz 3.0.0
1.1796 which-1.3.1.tgz 1.3.1
1.1797 which-2.0.2.tgz 2.0.2
 1.1797.1 Available under license
1.1798 woodstox-core-asl-4.4.1.jar 4.4.1
1.1799 word-wrap-1.2.3.tgz 1.2.3
 1.1799.1 Available under license
1.1800 wordwrap 0.0.3
 1.1800.1 Available under license
1.1801 wordwrap-1.0.0.tgz 1.0.0
1.1802 wrappy 1.0.2
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1.1803 write-1.0.3.tgz 1.0.3
1.1804 xml-apis-1.4.01.jar 1.4.01
1.1805 xmlchars-2.2.0.tgz 2.2.0
1.1806 xmlParserAPIs 2.6.2
 1.1806.1 Available under license
1.1807 xmlsec-1.5.7.jar 1.5.7
1.1808 xmltooling-1.4.4.jar 1.4.4
1.1809 xmlunit-core-2.5.1.jar 2.5.1
1.1810 xmlunit-core-2.6.3.jar 2.6.3
1.1811 xpp3-1.1.4c.jar 1.1.4c
1.1812 xvfb-1.2.4.tgz 1.2.4
1.1813 yaml-1.7.2.tgz 1.7.2
 1.1813.1 Available under license
1.1814 yamlbeans-1.09.jar 1.09
1.1815 yauzl-2.10.0.tgz 2.10.0
1.1816 yauzl-2.4.1.tgz 2.4.1
1.1817 yavijava-6.0.05.jar 6.0.05
1.1818 zjsonpatch-0.3.0.jar 0.3.0

1.1 1to2-1.0.0.tgz 1.0.0

1.2 abbrev-1.1.1.tgz 1.1.1

1.3 accessors-smart-1.1.jar 1.1

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```
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/*
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 */
import java.lang.reflect.Field;
import java.lang.reflect.Method;
import java.lang.reflect.Modifier;
import java.lang.reflect.Type;

/**
 * Contains all information needed to access a java field.
 *
 * field, getter setter
 *
 * this object is used internally by BeansAccess
 *
 * @see BeansAccess
 *
 * @author Uriel Chemouni
 */
public class Accessor {
    /**
     * Field to access
```

```

*/
protected Field field;
/**
 * Setter Methods if available
 */
protected Method setter;
/**
 * getter Methods if available
 */
protected Method getter;
/**
 * Filed index in object
 */
protected int index;
/**
 * Filed Class
 */
protected Class<?> type;
/**
 * Filed Type using JDK 5+ generics if available
 */
protected Type genericType;

protected String fieldName;

/**
 * getter for index
 * @return Index
 */
public int getIndex() {
    return index;
}

/**
 * is the field access using Field access type
 * @return if Accessor is public
 */
public boolean isPublic() {
    return setter == null;
}

/**
 * is the field is an enum field
 * @return if Accessor return an Enum Class
 */
public boolean isEnum() {
    return type.isEnum();
}

```

```

/**
 * return the field name
 * @return the field name
 */
public String getName() {
    return fieldName;
}

/**
 * return field Class
 * @return field Class
 */
public Class<?> getType() {
    return type;
}

/**
 * return generics field Type.
 * @return generics field Type.
 */
public Type getGenericType() {
    return genericType;
}

/**
 * @return true if the field can be read or write
 */
public boolean isUsable() {
    return field != null || getter != null || setter != null;
}

/**
 * @return true if the field can be read
 */
public boolean isReadable() {
    return field != null || getter != null;
}

/**
 * @return true if the field can be write
 */
public boolean isWritable() {
    return field != null || setter != null;
}

/**
 * build accessor for a field

```

```

*
* @param c
*     the handled class
* @param field
*     the field to access
*/
public Accessor(Class<?> c, Field field, FieldFilter filter) {
    this.fieldName = field.getName();
    int m = field.getModifiers();

    if ((m & (Modifier.STATIC | Modifier.TRANSIENT)) > 0)
        return;

    if ((m & Modifier.PUBLIC) > 0)
        this.field = field;

    String name = ASMUtil.getSetterName(field.getName());
    try {
        setter = c.getDeclaredMethod(name, field.getType());
    } catch (Exception e) {
    }
    boolean isBool = field.getType().equals(Boolean.TYPE);
    if (isBool) {
        name = ASMUtil.getIsName(field.getName());
    } else {
        name = ASMUtil.getGetterName(field.getName());
    }
    try {
        getter = c.getDeclaredMethod(name);
    } catch (Exception e) {
    }
    if (getter == null && isBool) {
        try {
            getter = c.getDeclaredMethod(ASMUtil.getGetterName(field.getName()));
        } catch (Exception e) {
        }
    }
}

if (this.field == null && getter == null && setter == null)
    return;

if (getter != null && !filter.canUse(field, getter))
    getter = null;

if (setter != null && !filter.canUse(field, setter))
    setter = null;

// disable

```

```
if (getter == null && setter == null && this.field == null)
    return;

this.type = field.getType();
this.genericType = field.getGenericType();
}
}
```

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1.4 accessors-smart-1.2.jar 1.2

1.5 acorn-5.7.3.tgz 5.7.3

1.6 acorn-6.3.0.tgz 6.3.0

1.7 acorn-6.4.0.tgz 6.4.0

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1.8 acorn-7.1.0.tgz 7.1.0

1.9 acorn-jsx-5.1.0.tgz 5.1.0

1.10 activation-1.1.1.jar 1.1.1

1.11 activation-1.1.jar 1.1

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1.12 adal4j-1.3.0.jar 1.3.0

1.13 adapter-rxjava-2.4.0.jar 2.4.0

1.14 add-dom-event-listener-1.1.0.tgz 1.1.0

1.15 add-px-to-style-1.0.0.tgz 1.0.0

1.16 aggregate-error-3.0.1.tgz 3.0.1

1.16.1 Available under license :

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1.17 ajv-5.5.2.tgz 5.5.2

1.17.1 Available under license :

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1.18 ajv-6.10.2.tgz 6.10.2

1.19 ajv-6.11.0.tgz 6.11.0

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1.20 ajv-errors-1.0.1.tgz 1.0.1

1.21 aliyun-java-sdk-core-4.1.2.jar 4.1.2

1.22 aliyun-java-sdk-ecs-4.11.0.jar 4.11.0

1.23 aliyun-java-sdk-ram-3.0.0.jar 3.0.0

1.24 ambari 2.6.2

1.24.1 Available under license :

2

2

ImmutableFsPermissionInnerClassesLOG

Lorg/apache/commons/logging/Log;FACTORY&Lorg/apache/hadoop/io/WritableFactory;

useraction*Lorg/apache/hadoop/fs/permission/FsAction;groupactionotheractionDEPRECATED_UMASK_LABEL
Ljava/lang/String;

ConstantValueUMASK_LABEL

DEFAULT_UMASKIcreateImmutable1(S)Lorg/apache/hadoop/fs/permission/FsPermission;CodeLineNumberTable
LocalVariableTable

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ction;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;)Vugo(S)Vmode1(L
org/apache/hadoop/fs/permission/FsPermission;)Vother(Ljava/lang/String;)V

getUserAction,()Lorg/apache/hadoop/fs/permission/FsAction;getGroupActiongetOtherActionset

fromShortnv+[Lorg/apache/hadoop/fs/permission/FsAction;write(Ljava/io/DataOutput;)VoutLjava/io/DataOutput;

Exceptions

readFields(Ljava/io/DataInput;)VinLjava/io/DataInput;readC(Ljava/io/DataInput;)Lorg/apache/hadoop/fs/permisio
n/FsPermission;ptoShort()Ssequals(Ljava/lang/Object;)ZthatobjLjava/lang/Object;

StackMapTablehashCode()ItoString()Ljava/lang/String;

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confUmask

oldStyleValueconf&Lorg/apache/hadoop/conf/Configuration;setUMaskW(Lorg/apache/hadoop/conf/Configuration;
Lorg/apache/hadoop/fs/permission/FsPermission;)V

getDefault0(Lorg/apache/hadoop/fs/permission/FsPermission;valueOfB(Ljava/lang/String;)Lorg/apache/hadoop/fs/
permission/FsPermission;cCiunixSymbolicPermission3(Lorg/apache/hadoop/fs/permission/FsPermission\$1;)Vx00L
org/apache/hadoop/fs/permission/FsPermission\$1;<clinit>

SourceFileFsPermission.javaOPBorg/apache/hadoop/fs/permission/FsPermission\$ImmutableFsPermissionOW=>?>

@> SaW+org/apache/hadoop/fs/permission/UmaskParserO[srss,org/apache/hadoop/fs/permission/FsPermissionkl}j

ava/lang/StringBuilderB~JOS dfs.umask9:rdfs.umask configuration key is deprecated. Convert to dfs.umaskmode,

using octal or symbolic umask specifications.

dfs.umaskmode%1\$03ojava/lang/Object`}"java/lang/IllegalArgumentException\$length !=
10(unixSymbolicPermission=).org/apache/hadoop/fs/permission/FsPermission\$1;<org/apache/hadoop/io/Writableja
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&34java/lang/Enumclone()Ljava/lang/Object;5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;(Ljava/lang/S
tring;I)Vordinal()I@1\$@%&@'&@(&@)&@*&@+&@,&@-&./012/ 345"
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SourceFilePermissionStatus.javaEnclosingMethod0org/apache/hadoop/fs/permission/PermissionStatus2org/apache/
hadoop/fs/permission/PermissionStatus\$1java/lang/Object\$org/apache/hadoop/io/WritableFactory7(Lorg/apache/ha
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umaskModeS<init>(Ljava/lang/String;)VCodeLineNumberTableLocalVariableTablethis-
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]+)([rwx]*)([, \s]*)s*+org/apache/hadoop/fs/permission/UmaskParser0org/apache/hadoop/fs/permission/Permission
Parser"java/lang/IllegalArgumentExceptionG(Ljava/lang/String;Ljava/util/regex/Pattern;Ljava/util/regex/Pattern;)V
combineModes(IZ)IsymbolicZjava/util/regex/Patterncompile-(Ljava/lang/String;)Ljava/util/regex/Pattern;

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othersModeuserTypeC groupType
othersType<init>G(Ljava/lang/String;Ljava/util/regex/Pattern;Ljava/util/regex/Pattern;)VCodeLineNumberTableLocalVariableTablethis2Lorg/apache/hadoop/fs/permission/PermissionParser;modeStrLjava/lang/String;Ljava/util/regex/Pattern;octalmatcherLjava/util/regex/Matcher;
StackMapTablexz{|
ExceptionsapplyNormalPattern.(Ljava/lang/String;Ljava/util/regex/Matcher;)Vcarr$[Clen$li$strtypeusergroupothersmodeicommaSeperatedAapplyOctalPatterncombineModes(IZ)lexistingexeOkcombineModeSegments(CIIZ)IcapXSourceFilePermissionParser.java* }
!&'('){5~|=>N>"java/lang/IllegalArgumentException*zHjava/lang/RuntimeException
Unexpected"#$#%#,ST0org/apache/hadoop/fs/permission/PermissionParserjava/lang/Objectjava/lang/Stringjava/util/regex/Patternjava/util/regex/Matcher()V3(Ljava/lang/CharSequence;)Ljava/util/regex/Matcher;find()Zmatches(Ljava/lang/String;)Vend()Ilength(I)Ljava/lang/String;charAt(I)CtoCharArray()[Ccontains(Ljava/lang/CharSequence;)Zsubstring(II)Ljava/lang/String;java/lang/ShortvalueOf%(Ljava/lang/String;)Ljava/lang/Short;
shortValue()S !"#$$%#&'()*+X***+*+*+.,+Y:
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rTableLocalVariableTablethis-Lorg/apache/hadoop/fs/permission/ChmodParser;modeStrLjava/lang/String;

Exceptions:applyNewPermission\$(Lorg/apache/hadoop/fs/FileStatus;)Sfile!Lorg/apache/hadoop/fs/FileStatus;perms

.Lorg/apache/hadoop/fs/permission/FsPermission;existingIexeOkZ

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<=>?;@ABCDE^s*[+]?([0-7]{3})\s*\$FGH*\G\s*([ugoa]*)([+=-

]+)([rwxX]+)([, \s]*)\s*+org/apache/hadoop/fs/permission/ChmodParser0org/apache/hadoop/fs/permission/Permissi

onParser"java/lang/IllegalArgumentException,org/apache/hadoop/fs/permission/FsPermissionG(Ljava/lang/String;L

java/util/regex/Pattern;Ljava/util/regex/Pattern;)Vorg/apache/hadoop/fs/FileStatus

getPermission0()Lorg/apache/hadoop/fs/permission/FsPermission;toShort()SisDir()ZcombineModes(IZ)Ijava/util/re

gex/Patterncompile-(Ljava/lang/String;)Ljava/util/regex/Pattern;!

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ConstantValue<init>()VCodeLineNumberTableLocalVariableTablethis8Lorg/apache/hadoop/fs/permission/Access
ControlException;(Ljava/lang/String;)VsLjava/lang/String;(Ljava/lang/Throwable;)VcauseLjava/lang/Throwable;
SourceFileAccessControlException.java
DeprecatedRuntimeVisibleAnnotationsLjava/lang/Deprecated;Permission
denied.6org/apache/hadoop/fs/permission/AccessControlExceptionjava/io/IOException!
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#$$<init>U(Ljava/lang/String;Ljava/lang/String;Lorg/apache/hadoop/fs/permission/FsPermission;)VCodeLineNum
berTableLocalVariableTablethisInnerClasses4Lorg/apache/hadoop/fs/permission/PermissionStatus$2;x0Ljava/lang/
String;x1x2.Lorg/apache/hadoop/fs/permission/FsPermission;
applyUMaskb(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/PermissionStat
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Exceptions&
SourceFilePermissionStatus.javaEnclosingMethod('java/lang/UnsupportedOperationException)2org/apache/hadoop
/fs/permission/PermissionStatus$20org/apache/hadoop/fs/permission/PermissionStatusjava/io/IOExceptioncreateIm
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2. In the event that any provision of this Agreement is held to be invalid or unenforceable, the remaining provisions of this Agreement remain in full force and effect.
3. You agree to comply with all applicable export and import laws and regulations.
4. You agree to allow IBM to store and use Your contact information, including names, phone numbers, and e-mail addresses, anywhere they do business. Such information will be processed and used in connection with our business relationship, and may be provided to contractors, Business Partners, and assignees of IBM for uses consistent with their collective business activities, including communicating with You (for example, for processing orders, for promotions, and for market research).
5. Neither You nor IBM will bring a legal action under this Agreement more than two years after the cause of action arose unless otherwise provided by local law without the possibility of contractual waiver or limitation.

6. Neither You nor IBM is responsible for failure to fulfill any obligations due to causes beyond its control.

7. This Agreement will not create any right or cause of action for any third party, nor will IBM be responsible for any third party claims against You except, as permitted by the Limitation of Liability section above, for bodily injury (including death) or damage to real or tangible personal property for which IBM is legally liable.

6. Governing Law, Jurisdiction, and Arbitration

Governing Law

Both You and IBM consent to the application of the laws of the country in which You acquired the Program license to govern, interpret, and enforce all of Your and IBM's rights, duties, and obligations arising from, or relating in any manner to, the subject matter of this Agreement, without regard to conflict of law principles.

The United Nations Convention on Contracts for the International Sale of Goods does not apply.

Jurisdiction

All of our rights, duties, and obligations are subject to the courts of the country in which You acquired the Program license.

Part 2 - Country-unique Terms

AMERICAS

ARGENTINA: Governing Law, Jurisdiction, and Arbitration (Section 6): The following exception is added to this section:

Any litigation arising from this Agreement will be settled exclusively by the Ordinary Commercial Court of the city of Buenos Aires.

BRAZIL: Governing Law, Jurisdiction, and Arbitration (Section 6): The following exception is added to this section:

Any litigation arising from this Agreement will be settled exclusively by the court of Rio de Janeiro, RJ.

CANADA: General (Section 5): The following replaces item 7:

7. This Agreement will not create any right or cause of action for any third party, nor will IBM be responsible for any third party claims against You except as permitted by the Limitation of Liability section above for bodily injury (including death) or physical harm to real or tangible personal property caused by IBM's negligence for which IBM is legally liable."

Governing Law, Jurisdiction, and Arbitration (Section 6): The phrase "the laws of the country in which You acquired the Program license" in the Governing Law subsection is replaced by the following:

the laws in the Province of Ontario"

PERU: Limitation of Liability (Section 4): The following is added at the end of this section:

In accordance with Article 1328 of the Peruvian Civil Code, the limitations and exclusions specified in this section will not apply to damages caused by IBM's willful misconduct ("dolo") or gross negligence ("culpa inexcusable").

UNITED STATES OF AMERICA: General (Section 5): The following is added to this section:

U.S. Government Users Restricted Rights - Use, duplication or disclosure restricted by the GSA ADP Schedule Contract with the IBM Corporation.

Governing Law, Jurisdiction, and Arbitration (Section 6): The phrase "the laws of the country in which You acquired the Program license" in the Governing Law subsection is replaced by the following:

the laws of the State of New York, United States of America

ASIA PACIFIC

AUSTRALIA: No Warranty (Section 3): The following is added:

Although IBM specifies that there are no warranties, You may have certain rights under the Trade Practices Act 1974 or other legislation and are only limited to the extent permitted by the applicable legislation.

Limitation of Liability (Section 4): The following is added:

Where IBM is in breach of a condition or warranty implied by the Trade Practices Act 1974, IBM's liability is limited to the repair or replacement of the goods, or the supply of equivalent goods. Where that condition or warranty relates to right to sell, quiet possession or clear title, or the goods are of a kind ordinarily acquired for personal, domestic or household use or consumption, then none of the limitations in this paragraph apply.

Governing Law, Jurisdiction, and Arbitration (Section 6): The phrase "the laws of the country in which You acquired the Program license" in the Governing Law subsection is replaced by the following:

the laws of the State or Territory in which You acquired the Program license

CAMBODIA, LAOS, and VIETNAM: Governing Law, Jurisdiction, and Arbitration (Section 6): The phrase "the laws of the country in which You acquired the Program license" in the Governing Law subsection is replaced by the following:

the laws of the State of New York, United States of America

The following is added to this section:

Arbitration

Disputes arising out of or in connection with this Agreement shall be finally settled by arbitration which shall be held in Singapore in accordance with the Arbitration Rules of Singapore International Arbitration Center ("SIAC Rules") then in effect. The arbitration award shall be final and binding for the parties without appeal and shall be in writing and set forth the findings of fact and the conclusions of law.

The number of arbitrators shall be three, with each side to the dispute being entitled to appoint one arbitrator. The two arbitrators appointed by the parties shall appoint a third arbitrator who shall act as chairman of the proceedings. Vacancies in the post of chairman shall be filled by the president of the SIAC. Other vacancies shall be filled by the respective nominating party. Proceedings shall continue from the stage they were at when the vacancy occurred.

If one of the parties refuses or otherwise fails to appoint an arbitrator within 30 days of the date the other party appoints its, the first appointed arbitrator shall be the sole arbitrator, provided that the arbitrator was validly and properly appointed.

All proceedings shall be conducted, including all documents presented in such proceedings, in the English language. The English language version of this Agreement prevails over any other language version.

HONG KONG S.A.R. and MACAU S.A.R. of China: Governing Law, Jurisdiction, and Arbitration (Section 6): The phrase "the laws of the country in which You acquired the Program license" in the Governing Law subsection is replaced by the following:

the laws of Hong Kong Special Administrative Region of China

INDIA: Limitation of Liability (Section 4): The following replaces the terms of items 1 and 2 of the first paragraph:

1) liability for bodily injury (including death) or damage to real property and tangible personal property will be limited to that caused by IBM's negligence; and 2) as to any other actual damage arising in any situation involving nonperformance by IBM pursuant to, or in any way related to the subject of this Agreement, IBM's liability will be limited to the charge paid by You for the individual Program that is the subject of the claim.

General (Section 5): The following replaces the terms of item 5:

If no suit or other legal action is brought, within three years after the cause of action arose, in respect of any claim that either party may have against the other, the rights of the concerned party in respect of such claim will be forfeited and the other party will stand released from its obligations in respect of such claim.

Governing Law, Jurisdiction, and Arbitration (Section 6): The following is added to this section:

Arbitration

Disputes arising out of or in connection with this Agreement shall be finally settled by arbitration which shall be held in Bangalore, India in accordance with the laws of India then in effect. The arbitration award shall be final and binding for the parties without appeal and shall be in writing and set forth the findings of fact and the conclusions of law.

The number of arbitrators shall be three, with each side to the dispute being entitled to appoint one arbitrator. The two arbitrators appointed by the parties shall appoint a third arbitrator who shall act as chairman of the proceedings. Vacancies in the post of chairman shall be filled by the president of the Bar Council of India. Other vacancies shall be filled by the respective nominating party. Proceedings shall continue from the stage they were at when the vacancy occurred.

If one of the parties refuses or otherwise fails to appoint an arbitrator within 30 days of the date the other party

appoints its, the first appointed arbitrator shall be the sole arbitrator, provided that the arbitrator was validly and properly appointed.

All proceedings shall be conducted, including all documents presented in such proceedings, in the English language. The English language version of this Agreement prevails over any other language version.

JAPAN: General (Section 5): The following is inserted after item 5:

Any doubts concerning this Agreement will be initially resolved between us in good faith and in accordance with the principle of mutual trust.

MALAYSIA: Limitation of Liability (Section 4): The word "SPECIAL" in item 2 of the third paragraph is deleted:

NEW ZEALAND: No Warranty (Section 3): The following is added:

Although IBM specifies that there are no warranties, You may have certain rights under the Consumer Guarantees Act 1993 or other legislation which cannot be excluded or limited. The Consumer Guarantees Act 1993 will not apply in respect of any goods which IBM provides, if You require the goods for the purposes of a business as defined in that Act.

Limitation of Liability (Section 4): The following is added:

Where Programs are not acquired for the purposes of a business as defined in the Consumer Guarantees Act 1993, the limitations in this Section are subject to the limitations in that Act.

PEOPLE'S REPUBLIC OF CHINA: Charges (Section 2): The following is added:

All banking charges incurred in the People's Republic of China will be borne by You and those incurred outside the People's Republic of China will be borne by IBM.

Governing Law, Jurisdiction, and Arbitration (Section 6): The phrase "the laws of the country in which You acquired the Program license" in the Governing Law subsection is replaced by the following:

the laws of the State of New York, United States of America (except when local law requires otherwise)

PHILIPPINES: Limitation of Liability (Section 4): The following replaces the terms of item 2 of the third paragraph:

2. special (including nominal and exemplary damages), moral, incidental, or indirect damages or for any economic consequential damages; or

Governing Law, Jurisdiction, and Arbitration (Section 6): The following is added to this section:

Arbitration

Disputes arising out of or in connection with this Agreement shall be finally settled by arbitration which shall be held in Metro Manila, Philippines in accordance with the laws of the Philippines then in effect. The arbitration award shall be final and binding for the parties without appeal and shall be in writing and set forth the findings of

fact and the conclusions of law.

The number of arbitrators shall be three, with each side to the dispute being entitled to appoint one arbitrator. The two arbitrators appointed by the parties shall appoint a third arbitrator who shall act as chairman of the proceedings. Vacancies in the post of chairman shall be filled by the president of the Philippine Dispute Resolution Center, Inc. Other vacancies shall be filled by the respective nominating party. Proceedings shall continue from the stage they were at when the vacancy occurred.

If one of the parties refuses or otherwise fails to appoint an arbitrator within 30 days of the date the other party appoints its, the first appointed arbitrator shall be the sole arbitrator, provided that the arbitrator was validly and properly appointed.

All proceedings shall be conducted, including all documents presented in such proceedings, in the English language. The English language version of this Agreement prevails over any other language version.

SINGAPORE: Limitation of Liability (Section 4): The words "SPECIAL" and "ECONOMIC" are deleted from item 2 of the third paragraph.

General (Section 5): The following replaces the terms of item 7:

Subject to the rights provided to IBM's suppliers and Program developers as provided in Section 4 above (Limitation of Liability), a person who is not a party to this Agreement shall have no right under the Contracts (Right of Third Parties) Act to enforce any of its terms.

EUROPE, MIDDLE EAST, AFRICA (EMEA)

No Warranty (Section 3): In the European Union, the following is added at the beginning of this section:

In the European Union, consumers have legal rights under applicable national legislation governing the sale of consumer goods. Such rights are not affected by the provisions of this Section 3.

Limitation of Liability (Section 4): In Austria, Denmark, Finland, Greece, Italy, Netherlands, Norway, Portugal, Spain, Sweden and Switzerland, the following replaces the terms of this section in its entirety:

Except as otherwise provided by mandatory law:

1. IBM's liability for any damages and losses that may arise as a consequence of the fulfillment of its obligations under or in connection with this agreement or due to any other cause related to this agreement is limited to the compensation of only those damages and losses proved and actually arising as an immediate and direct consequence of the non-fulfillment of such obligations (if IBM is at fault) or of such cause, for a maximum amount equal to the charges You paid for the Program.

The above limitation shall not apply to damages for bodily injuries (including death) and damages to real property and tangible personal property for which IBM is legally liable.

2. UNDER NO CIRCUMSTANCES IS IBM, OR ANY OF ITS PROGRAM DEVELOPERS, LIABLE FOR ANY OF THE FOLLOWING, EVEN IF INFORMED OF THEIR POSSIBILITY: 1) LOSS OF, OR DAMAGE TO, DATA; 2) INCIDENTAL OR INDIRECT DAMAGES, OR FOR ANY ECONOMIC CONSEQUENTIAL

DAMAGES; 3) LOST PROFITS, EVEN IF THEY ARISE AS AN IMMEDIATE CONSEQUENCE OF THE EVENT THAT GENERATED THE DAMAGES; OR 4) LOSS OF BUSINESS, REVENUE, GOODWILL, OR ANTICIPATED SAVINGS.

3. The limitation and exclusion of liability herein agreed applies not only to the activities performed by IBM but also to the activities performed by its suppliers and Program developers, and represents the maximum amount for which IBM as well as its suppliers and Program developers, are collectively responsible.

Limitation of Liability (Section 4): In France and Belgium, the following replaces the terms of this section in its entirety:

Except as otherwise provided by mandatory law:

1. IBM's liability for any damages and losses that may arise as a consequence of the fulfillment of its obligations under or in connection with this agreement is limited to the compensation of only those damages and losses proved and actually arising as an immediate and direct consequence of the non-fulfillment of such obligations (if IBM is at fault), for a maximum amount equal to the charges You paid for the Program that has caused the damages.

The above limitation shall not apply to damages for bodily injuries (including death) and damages to real property and tangible personal property for which IBM is legally liable.

2. UNDER NO CIRCUMSTANCES IS IBM, OR ANY OF ITS PROGRAM DEVELOPERS, LIABLE FOR ANY OF THE FOLLOWING, EVEN IF INFORMED OF THEIR POSSIBILITY: 1) LOSS OF, OR DAMAGE TO, DATA; 2) INCIDENTAL OR INDIRECT DAMAGES, OR FOR ANY ECONOMIC CONSEQUENTIAL DAMAGES; 3) LOST PROFITS, EVEN IF THEY ARISE AS AN IMMEDIATE CONSEQUENCE OF THE EVENT THAT GENERATED THE DAMAGES; OR 4) LOSS OF BUSINESS, REVENUE, GOODWILL, OR ANTICIPATED SAVINGS.

3. The limitation and exclusion of liability herein agreed applies not only to the activities performed by IBM but also to the activities performed by its suppliers and Program developers, and represents the maximum amount for which IBM as well as its suppliers and Program developers, are collectively responsible.

Governing Law, Jurisdiction, and Arbitration (Section 6)

Governing Law

The phrase "the laws of the country in which You acquired the Program license" is replaced by:

1) "the laws of Austria" in Albania, Armenia, Azerbaijan, Belarus, Bosnia-Herzegovina, Bulgaria, Croatia, Georgia, Hungary, Kazakhstan, Kyrgyzstan, FYR Macedonia, Moldavia, Poland, Romania, Russia, Slovakia, Slovenia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan, and FR Yugoslavia;

2) "the laws of France" in Algeria, Benin, Burkina Faso, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo Republic, Djibouti, Democratic Republic of Congo, Equatorial Guinea, French Guiana, French Polynesia, Gabon, Gambia, Guinea, Guinea-Bissau, Ivory Coast, Lebanon, Madagascar, Mali, Mauritania, Mauritius, Mayotte, Morocco, New Caledonia, Niger, Reunion, Senegal, Seychelles, Togo, Tunisia, Vanuatu, and Wallis & Futuna;

3) "the laws of Finland" in Estonia, Latvia, and Lithuania;

4) "the laws of England" in Angola, Bahrain, Botswana, Burundi, Egypt, Eritrea, Ethiopia, Ghana, Jordan, Kenya, Kuwait, Liberia, Malawi, Malta, Mozambique, Nigeria, Oman, Pakistan, Qatar, Rwanda, Sao Tome, Saudi Arabia,

Sierra Leone, Somalia, Tanzania, Uganda, United Arab Emirates, the United Kingdom, West Bank/Gaza, Yemen, Zambia, and Zimbabwe; and

5) "the laws of South Africa" in South Africa, Namibia, Lesotho and Swaziland.

Jurisdiction

The following exceptions are added to this section:

- 1) In Austria the choice of jurisdiction for all disputes arising out of this Agreement and relating thereto, including its existence, will be the competent court of law in Vienna, Austria (Inner-City);
- 2) in Angola, Bahrain, Botswana, Burundi, Egypt, Eritrea, Ethiopia, Ghana, Jordan, Kenya, Kuwait, Liberia, Malawi, Malta, Mozambique, Nigeria, Oman, Pakistan, Qatar, Rwanda, Sao Tome, Saudi Arabia, Sierra Leone, Somalia, Tanzania, Uganda, United Arab Emirates, West Bank/Gaza, Yemen, Zambia, and Zimbabwe all disputes arising out of this Agreement or related to its execution, including summary proceedings, will be submitted to the exclusive jurisdiction of the English courts;
- 3) in Belgium and Luxembourg, for all disputes arising out of this Agreement or related to its interpretation or its execution, only the law and the courts of the capital of the country in which Your registered office and/or commercial office is located are competent;
- 4) in France, Algeria, Benin, Burkina Faso, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo Republic, Djibouti, Democratic Republic of Congo, Equatorial Guinea, French Guiana, French Polynesia, Gabon, Gambia, Guinea, Guinea-Bissau, Ivory Coast, Lebanon, Madagascar, Mali, Mauritania, Mauritius, Mayotte, Morocco, New Caledonia, Niger, Reunion, Senegal, Seychelles, Togo, Tunisia, Vanuatu, and Wallis & Futuna all disputes arising out of this Agreement or related to its violation or execution, including summary proceedings, will be settled exclusively by the Commercial Court of Paris;
- 5) in Russia, all disputes arising out of or in relation to the interpretation, the violation, the termination, the nullity of the execution of this Agreement shall be settled by Arbitration Court of Moscow;
- 6) in South Africa, Namibia, Lesotho and Swaziland, both of us agree to submit all disputes relating to this Agreement to the jurisdiction of the High Court in Johannesburg;
- 7) in Turkey all disputes arising out of or in connection with this Agreement shall be resolved by the Istanbul Central (Sultanahmet) Courts and Execution Directorates of Istanbul, the Republic of Turkey;
- 8) in each of the following specified countries, any legal claim arising out of this Agreement will be brought before, and settled exclusively by, the competent court of a) Athens for Greece, b) Tel Aviv-Jaffa for Israel, c) Milan for Italy, d) Lisbon for Portugal, and e) Madrid for Spain; and
- 9) in the United Kingdom, both of us agree to submit all disputes relating to this Agreement to the jurisdiction of the English courts.

Arbitration

In Albania, Armenia, Azerbaijan, Belarus, Bosnia-Herzegovina, Bulgaria, Croatia, Georgia, Hungary, Kazakhstan, Kyrgyzstan, FYR Macedonia, Moldavia, Poland, Romania, Russia, Slovakia, Slovenia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan, and FR Yugoslavia all disputes arising out of this Agreement or related to its violation, termination or nullity will be finally settled under the Rules of Arbitration and Conciliation of the International Arbitral Center of the Federal Economic Chamber in Vienna (Vienna Rules) by three arbitrators appointed in accordance with these rules.

The arbitration will be held in Vienna, Austria, and the official language of the proceedings will be English. The decision of the arbitrators will be final and binding upon both parties. Therefore, pursuant to paragraph 598 (2) of the Austrian Code of Civil Procedure, the parties expressly waive the application of paragraph 595 (1) figure 7 of the Code. IBM may, however, institute proceedings in a competent court in the country of installation.

In Estonia, Latvia and Lithuania all disputes arising in connection with this Agreement will be finally settled in arbitration that will be held in Helsinki, Finland in accordance with the arbitration laws of Finland then in effect. Each party will appoint one arbitrator. The arbitrators will then jointly appoint the chairman. If arbitrators cannot agree on the chairman, then the Central Chamber of Commerce in Helsinki will appoint the chairman.

AUSTRIA: No Warranty (Section 3): The terms of this section are completely replaced by the following:

The following limited warranty applies if You have paid a charge to obtain the Program:

The warranty period is twelve months from the date of delivery. The limitation period for consumers in action for breach of warranty is the statutory period as a minimum.

The warranty for an IBM Program covers the functionality of the Program for its normal use and the Program's conformity to its specifications.

IBM warrants that when the Program is used in the specified operating environment it will conform to its specifications. IBM does not warrant uninterrupted or error-free operation of the Program or that IBM will correct all Program defects. You are responsible for the results obtained from the use of the Program.

The warranty applies only to the unmodified portion of the Program.

If the Program does not function as warranted during the warranty period and the problem cannot be resolved with information available. You may return the Program to the party from whom You acquired it and receive a refund in the amount You paid. If You downloaded the Program, You may contact the party from whom You acquired it to obtain the refund.

This is our sole obligation to You, except as otherwise required by applicable statutory law.

General (Section 5): The following is added to item 4:

For purposes of this clause, contact information will also include information about You as a legal entity, for example revenue data and other transactional information.

GERMANY: No Warranty (Section 3): The same changes apply as those in No Warranty (Section 3) under Austria above.

Limitation of Liability (Section 4): The following paragraph is added to this Section:

The limitations and exclusions specified in this Section will not apply to damages caused by IBM intentionally or by gross negligence.

General (Section 5): The following replaces the terms of item 5:

Any claims resulting from this Agreement are subject to a statute of limitation of three years, except as stated in Section 3 (No Warranty) of this Agreement.

HUNGARY: Limitation of Liability (Section 4): The following is added at the end of this section:

The limitation and exclusion specified herein shall not apply to liability for a breach of contract damaging life, physical well-being, or health that has been caused intentionally, by gross negligence, or by a criminal act.

The parties accept the limitations of liability as valid provisions and state that the Section 314.(2) of the Hungarian Civil Code applies as the acquisition price as well as other advantages arising out of the present Agreement balance this limitation of liability.

IRELAND: No Warranty (Section 3): The following is added to this section:

Except as expressly provided in these terms and conditions, or section 12 of the Sale of Goods Act 1893 (as amended by the Sale of Goods and Supply of Services Act 1980 ("the 1980 Act")), all conditions and warranties (express or implied, statutory or otherwise) are hereby excluded including, without limitation, any warranties implied by the Sale of Goods Act 1893 as amended by the 1980 Act (including, for the avoidance of doubt, section 39 of the 1980 Act).

Limitation of Liability (Section 4): The following replaces the terms of this section in its entirety:

For the purposes of this section, a "Default" means any act, statement, omission, or negligence on the part of IBM in connection with, or in relation to, the subject matter of an Agreement in respect of which IBM is legally liable to You whether in contract or tort. A number of Defaults which together result in, or contribute to, substantially the same loss or damage will be treated as one Default occurring on the date of occurrence of the last such Default.

Circumstances may arise where, because of a Default, You are entitled to recover damages from IBM. This section sets out the extent of IBM's liability and Your sole remedy.

1. IBM will accept unlimited liability for (a) death or personal injury caused by the negligence of IBM, and (b) subject always to the Items for Which IBM is Not Liable below, for physical damage to Your tangible property resulting from the negligence of IBM.
2. Except as provided in item 1 above, IBM's entire liability for actual damages for any one Default will not in any event exceed the greater of 1) EUR 125,000, or 2) 125% of the amount You paid for the Program directly relating to the Default. These limits also apply to any of IBM's suppliers and Program developers. They state the maximum for which IBM and such suppliers and Program developers are collectively responsible.

Items for Which IBM is Not Liable

Save with respect to any liability referred to in item 1 above, under no circumstances is IBM or any of its suppliers or Program developers liable for any of the following, even if IBM or they were informed of the possibility of such losses:

1. loss of, or damage to, data;
2. special, indirect, or consequential loss; or
3. loss of profits, business, revenue, goodwill, or anticipated savings.

ITALY: General (Section 5): The following is added to this section:

IBM and Customer (hereinafter, individually, "Party") shall comply with all the obligations of the applicable provisions of law and/or regulation on personal data protection. Each of the Parties will indemnify and keep the other Party harmless from any damage, claim, cost or expense incurred by the latter, directly and or indirectly, as a consequence of an infringement of the other Party of the mentioned provisions of law and/or regulations.

SLOVAKIA: Limitation of Liability (Section 4): The following is added to the end of the last paragraph:

The limitations apply to the extent they are not prohibited under 373-386 of the Slovak Commercial Code.

General (Section 5): The terms of item 5 are replaced with the following:

THE PARTIES AGREE THAT, AS DEFINED BY APPLICABLE LOCAL LAW, ANY LEGAL OR OTHER ACTION RELATED TO A BREACH OF THIS AGREEMENT MUST BE COMMENCED NO LATER THAN FOUR YEARS FROM THE DATE ON WHICH THE CAUSE OF ACTION AROSE.

SWITZERLAND: General (Section 5): The following is added to item 4:

For purposes of this clause, contact information will also include information about You as a legal entity, for example revenue data and other transactional information.

UNITED KINGDOM: No Warranty (Section 3): The following replaces the first sentence in the first paragraph of this section:

SUBJECT TO ANY STATUTORY WARRANTIES WHICH CANNOT BE EXCLUDED, IBM MAKES NO WARRANTY OR CONDITION EITHER EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) THE IMPLIED WARRANTIES OF SATISFACTORY QUALITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT, REGARDING THE PROGRAM.

Limitation of Liability (Section 4): The following replaces the terms of this section in its entirety:

For the purposes of this section, a "Default" means any act, statement, omission, or negligence on the part of IBM in connection with, or in relation to, the subject matter of an Agreement in respect of which IBM is legally liable to You, whether in contract or tort. A number of Defaults which together result in, or contribute to, substantially the same loss or damage will be treated as one Default.

Circumstances may arise where, because of a Default, You are entitled to recover damages from IBM. This section sets out the extent of IBM's liability and Your sole remedy.

1. IBM will accept unlimited liability for:

- a. death or personal injury caused by the negligence of IBM;
- b. any breach of its obligations implied by Section 12 of the Sale of Goods Act 1979 or Section 2 of the Supply of Goods and Services Act 1982, or any statutory modification or re-enactment of either such Section; and
- c. subject always to the Items for Which IBM is Not Liable below, for physical damage to Your tangible property resulting from the negligence of IBM.

2. IBM's entire liability for actual damages for any one Default will not in any event, except as provided in item 1 above, exceed the greater of 1) 75,000, or 2) 125% of the amount You paid for the Program directly relating to the Default. These limits also apply to IBM's suppliers and Program developers. They state the maximum for which IBM and such suppliers and Program developers are collectively responsible.

Items for Which IBM is Not Liable

Save with respect to any liability referred to in item 1 above, under no circumstances is IBM or any of its suppliers or Program developers liable for any of the following, even if IBM or they were informed of the possibility of such losses:

1. loss of, or damage to, data;
2. special, indirect, or consequential loss; or
3. loss of profits, business, revenue, goodwill, or anticipated savings.

Z125-5589-03 (06/2006)

NOTICES AND INFORMATION

IBM XL Transform and Query Engine for Java, V1.0

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The following are Excluded Components:

- Apache Jakarta Byte Code Engineering Library (BCEL) v5.1
- Apache Xalan-Java v2.6
- Apache Xerces v2.9
- Apache XML Commons APIs v1.2
- Apache XML Commons Resolver v1.1
- Document Object Model (DOM) Level 3
- Simple API for XML (SAX) v2.0.2

APACHE CODE: The Program includes all or portions of the following software developed by the Apache Software Foundation.

This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation.

For more information on the Apache Software Foundation, please see <http://www.apache.org>:

- Apache Jakarta Byte Code Engineering Library (BCEL) v5.1
- Apache Xalan-Java v2.6
- Apache Xerces v2.9
- Apache XML Commons APIs v1.2
- Apache XML Commons Resolver v1.1

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*

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```
{  
  "items" : [  

```

```

{
  "PermissionInfo" : {
    "permission_id" : 1
  }
},
{
  "PermissionInfo" : {
    "permission_id" : 2
  }
},
{
  "PermissionInfo" : {
    "permission_id" : 3
  }
},
{
  "PermissionInfo" : {
    "permission_id" : 4
  }
}
]
}

```

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List Permissions

=====

[[Back to Permission Resources](#)](permission-resources.md)

****Summary****

Returns a collection of the existing permissions.

GET /permissions

****Response****

```
<table>
<tr>
  <th>HTTP CODE</th>
  <th>Description</th>
</tr>
<tr>
  <td>200</td>
  <td>OK</td>
</tr>
<tr>
  <td>400</td>
  <td>Bad Request</td>
</tr>
<tr>
  <td>401</td>
  <td>Unauthorized</td>
</tr>
<tr>
  <td>403</td>
  <td>Forbidden</td>
</tr>
<tr>
  <td>404</td>
  <td>Not Found</td>
</tr>
<tr>
  <td>500</td>
  <td>Internal Server Error</td>
</tr>
</table>
```

****Example****

Get the collection of all currently stored permissions.

GET /permissions

200 OK

```
{
  "href" : "http://your.ambari.server/api/v1/permissions",
  "items" : [
    {
      "href" : "http://your.ambari.server/api/v1/permissions/1",
      "PermissionInfo" : {
        "permission_id" : 1
      }
    },
    {
      "href" : "http://your.ambari.server/api/v1/permissions/2",
      "PermissionInfo" : {
        "permission_id" : 2
      }
    },
    {
      "href" : "http://your.ambari.server/api/v1/permissions/3",
      "PermissionInfo" : {
        "permission_id" : 3
      }
    },
    {
      "href" : "http://your.ambari.server/api/v1/permissions/4",
      "PermissionInfo" : {
        "permission_id" : 4
      }
    }
  ]
}
```

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Delete Permission

=====

[Back to Permission Resources](permission-resources.md)

Summary

Removes an existing permission resource. This operation is not supported, permissions are read-only resources.

```
DELETE /permissions/:permission_id
```

Response

```
<table>
<tr>
  <th>HTTP CODE</th>
  <th>Description</th>
</tr>
<tr>
  <td>500</td>
  <td>Internal Server Error</td>
</tr>
</table>
```

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Create Permission

=====

[Back to Permission Resources](permission-resources.md)

****Summary****

Create a new permission resource. This operation is not supported, permissions are read-only resources.

POST /permissions/:permission_id

****Response****

HTTP CODE	Description
500	Internal Server Error

<!--

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Create Permission

=====

[Back to Permission Resources](permission-resources.md)

****Summary****

Update an existing permission resource. This operation is not supported, permissions are read-only resources.

PUT /permissions/:permission_id

****Response****

```
<table>
<tr>
  <th>HTTP CODE</th>
  <th>Description</th>
</tr>
<tr>
  <td>500</td>
  <td>Internal Server Error</td>
</tr>
</table>
```

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Permission Resources

Permission resources help to determine access control for a user upon a resource (Ambari, a cluster, a view, etc...).

###API Summary

- [List permissions](permission-list.md)
- [Get permission](permission-get.md)
- [Create permission](permission-create.md)
- [Update permission](permission-update.md)
- [Delete permission](permission-delete.md)

###Properties

```
<table>
<tr>
  <th>Property</th>
  <th>Description</th>
```

```

</tr>
<tr>
  <td>PermissionInfo/permission_id</td>
  <td>The permission's unique id - this value may be used to uniquely identify a permission.</td>
</tr>
<tr>
  <td>PermissionInfo/permission_name</td>
  <td>The permission's unique name -this value may be used to uniquely identify a permission.</td>
</tr>
<tr>
  <td>PermissionInfo/permission_label</td>
  <td>The permission's descriptive label - this value may be used to present the permission in a user interface.</td>
</tr>
<tr>
  <td>PermissionInfo/resource_name</td>
  <td>
    The resource type this permission is related to. Possible values include:
    <ul>
      <li>AMBARI - the Ambari server, itself</li>
      <li>CLUSTER - a cluster managed by the Ambari server</li>
      <li>VIEW - a view managed by the Ambari server</li>
    </ul>
  </td>
</tr>
</table>

```

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List Permissions

=====

[[Back to Permission Resources](#)](permission-resources.md)

****Summary****

Gets the details about an existing permission.

GET /permissions/:permission_id

****Response****

```
<table>
<tr>
  <th>HTTP CODE</th>
  <th>Description</th>
</tr>
<tr>
  <td>200</td>
  <td>OK</td>
</tr>
<tr>
  <td>400</td>
  <td>Bad Request</td>
</tr>
<tr>
  <td>401</td>
  <td>Unauthorized</td>
</tr>
<tr>
  <td>403</td>
  <td>Forbidden</td>
</tr>
<tr>
  <td>404</td>
  <td>Not Found</td>
</tr>
<tr>
  <td>500</td>
  <td>Internal Server Error</td>
</tr>
</table>
```

****Example****

Get the permission with the permission_id of 1.

GET /permissions/1

```
200 OK
{
  "href" : "http://your.ambari.server/api/v1/permissions/1",
```

```
"PermissionInfo" : {  
  "permission_id" : 1,  
  "permission_name" : "AMBARI.ADMINISTRATOR",  
  "permission_label" : "Ambari Administrator",  
  "resource_name" : "AMBARI"  
}  
}
```

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For jQuery UI Timepicker Addon (ambari-web/vendor/scripts/jquery-ui-timepicker-addon.js):

jQuery timepicker addon

By: Trent Richardson [<http://trentrichardson.com>]

Version 1.0.5

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MockJax - jQuery Plugin to Mock Ajax requests

Version: 1.6.0

Released:

Home: <https://github.com/jakerella/jquery-mockjax>

Author: Jonathan Sharp (<http://jdsharp.com>)

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For ember-qunit (`contrib/views/slider/src/main/resources/ui/app/assets/javascripts/ember-qunit.js`)

Home: <https://github.com/rwjblue/ember-qunit>

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```
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```

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```
}}
```

```
{{#if modalGuard}}
```

```
<div class="modal fade" tabindex=-1 role="dialog">
```

```
<div class="modal-dialog modal-sm">
```

```
<div class="modal-content">
```

```
<div class="modal-header">
```

```
<button type="button" class="fa fa-times pull-right" {{action 'close'}}></button>
```

```
<h4 class="modal-title">{{fa-icon icon="edit"}}{{#if selected.isDirectory}}Directory{{else}}File{{/if}} Edit
```

```
Permissions</h4>
```

```
</div>
```

```
<form class="form-horizontal">
```

```
<div class="modal-body">
```

```
<div class="form-group">
```

```
<label class="col-sm-2 control-label">User</label>
```

```
<div class="btn-group col-md-10">
```

```
<button type="button" class="btn {{if usrR "btn-primary" "btn-default"}}" {{action "togglePermission" "usrR"}}>Read</button>
```

```
<button type="button" class="btn {{if usrW "btn-primary" "btn-default"}}" {{action "togglePermission" "usrW"}}>Write</button>
```

```
<button type="button" class="btn {{if usrE "btn-primary" "btn-default"}}" {{action "togglePermission" "usrE"}}>Execute</button>
```

```
</div>
```

```
</div>
```

```
<div class="form-group">
```

```

    <label class="col-sm-2 control-label">Group</label>
    <div class="btn-group col-md-10">
      <button type="button" class="btn {{if grpR "btn-primary" "btn-default"}}" {{action "togglePermission"
"grpR"}}>Read</button>
      <button type="button" class="btn {{if grpW "btn-primary" "btn-default"}}" {{action "togglePermission"
"grpW"}}>Write</button>
      <button type="button" class="btn {{if grpE "btn-primary" "btn-default"}}" {{action "togglePermission"
"grpE"}}>Execute</button>
    </div>
  </div>
  <div class="form-group">
    <label class="col-sm-2 control-label">Other</label>
    <div class="btn-group col-md-10">
      <button type="button" class="btn {{if othR "btn-primary" "btn-default"}}" {{action "togglePermission"
"othR"}}>Read</button>
      <button type="button" class="btn {{if othW "btn-primary" "btn-default"}}" {{action "togglePermission"
"othW"}}>Write</button>
      <button type="button" class="btn {{if othE "btn-primary" "btn-default"}}" {{action "togglePermission"
"othE"}}>Execute</button>
    </div>
  </div>
  </div>
  <div class="modal-footer">
    <span class="spinner-wrap">
      {{#if isUpdating}}
      {{fa-icon "refresh" spin=true}}
      {{/if}}
    </span>
    <button type="button" class="btn btn-default {{if isUpdating "disabled"}}" {{action 'close'}}>{{fa-icon
icon="close"}} Cancel</button>
    <button type="submit" class="btn btn-primary {{if isUpdating "disabled"}}" {{action 'chmod'}}>{{fa-icon
icon="edit"}} Save</button>
  </div>
</form>
</div>
</div>
{{/if}}
/**

```

```

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*/

```

```
import Ember from 'ember';
```

```

export function showPermissionString(params) {
  let file = params[0];
  let permission = file.get('permission');
  if (file.get('isDirectory')) {
    return `d${permission.substring(1)}`
  }
  return permission;
}

```

```
export default Ember.Helper.helper(showPermissionString);
```

```
/**
```

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*/

```

```
import Ember from 'ember';
```

```
import OperationModal from '../mixins/operation-modal';
```

```

export default Ember.Component.extend(OperationModal, {
  fileSelectionService: Ember.inject.service('files-selection'),
  fileOperationService: Ember.inject.service('file-operation'),
  closeOnEscape: true,
  isUpdating: false,
  selected: Ember.computed('fileSelectionService.files', function() {
    return this.get('fileSelectionService.files').objectAt(0);
  })
});

```

```

    }),
    permission: Ember.computed('selected.permission', function() {
      return this.get('selected.permission');
    }),
    setPermissionGuards: function() {
      var permission = this.get('permission');
      this.set('usrR', this.isSet(permission, 'user', "read"));
      this.set('usrW', this.isSet(permission, 'user', "write"));
      this.set('usrE', this.isSet(permission, 'user', "execute"));

      this.set('grpR', this.isSet(permission, 'group', "read"));
      this.set('grpW', this.isSet(permission, 'group', "write"));
      this.set('grpE', this.isSet(permission, 'group', "execute"));

      this.set('othR', this.isSet(permission, 'other', "read"));
      this.set('othW', this.isSet(permission, 'other', "write"));
      this.set('othE', this.isSet(permission, 'other', "execute"));
    },

    isSet: function(permission, userType, permissionType) {
      var checkValueAtLocation = function(index, value) {
        return permission[index] === value;
      };

      var checkValueForPermissionType = function(startIndex, permissionType) {
        switch(permissionType) {
          case 'read':
            return checkValueAtLocation(startIndex, 'r');
          case 'write':
            return checkValueAtLocation(startIndex + 1, 'w');
          case 'execute':
            return checkValueAtLocation(startIndex + 2, 'x');
        }
      };

      switch(userType) {
        case "user":
          return checkValueForPermissionType(1, permissionType);
        case "group":
          return checkValueForPermissionType(4, permissionType);
        case "other":
          return checkValueForPermissionType(7, permissionType);
      }
    },

    getPermissionFromGuards: function() {
      var oldPermission = this.get('permission');
      var replaceAt = function(index, value) {
        return oldPermission.substring(0, index) + value + oldPermission.substring(index + value.length);
      };

```

```

    };
    oldPermission = this.get('usrR') ? replaceAt(1, 'r') : replaceAt(1, '-');
    oldPermission = this.get('usrW') ? replaceAt(2, 'w') : replaceAt(2, '-');
    oldPermission = this.get('usrE') ? replaceAt(3, 'x') : replaceAt(3, '-');
    oldPermission = this.get('grpR') ? replaceAt(4, 'r') : replaceAt(4, '-');
    oldPermission = this.get('grpW') ? replaceAt(5, 'w') : replaceAt(5, '-');
    oldPermission = this.get('grpE') ? replaceAt(6, 'x') : replaceAt(6, '-');
    oldPermission = this.get('othR') ? replaceAt(7, 'r') : replaceAt(7, '-');
    oldPermission = this.get('othW') ? replaceAt(8, 'w') : replaceAt(8, '-');
    oldPermission = this.get('othE') ? replaceAt(9, 'x') : replaceAt(9, '-');
    return oldPermission;
  },
  actions: {
    didOpenModal: function() {
      this.setPermissionGuards();
    },

    chmod: function() {
      var newPermission = this.getPermissionFromGuards();
      if(newPermission === this.get('permission')) {
        return false;
      }
      this.set('isUpdating', true);
      this.get('fileOperationService').chmod(this.get('selected').get('path'), newPermission).then((response) => {
        this.get('selected').set('permission', response.permission);
        this.set('isUpdating', false);
        this.send('close');
      }, (error) => {
        this.set('isUpdating', false);
        this.send('close');
      });
    },

    togglePermission: function(propertyName) {
      Ember.run.later(() => {
        this.set(propertyName, !this.get(propertyName));
      });
    }
  });
<!--

```

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_WRITE_ACP

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WRITE_ACPFULL_CONTROLtypeDesc&Lorg/apache/axis/description/TypeDesc;>class\$Lorg/jets3t/service/impl
\$soap\$axis\$_2006_03_01\$PermissionLjava/lang/Class;

Synthetic<init>(Ljava/lang/String;VCodeLineNumberTableLocalVariableTablethisvaluegetValue)Ljava/lang/Strin
g; fromValueN(Ljava/lang/String;Lorg/jets3t/service/impl/soap/axis/_2006_03_01/Permission;enumeration
Exceptions

fromStringequals(Ljava/lang/Object;)ZobjLjava/lang/Object;hashCode()ItoStringreadResolve()Ljava/lang/Object;

getSerializere(Ljava/lang/String;Ljava/lang/Class;Ljavax/xml/namespace/QName;)Lorg/apache/axis/encoding/Seria
lizer;mechType

_javaType_xmlTypeLjavax/xml/namespace/QName;getDeserializerg(Ljava/lang/String;Ljava/lang/Class;Ljavax/xm

l/namespace/QName;)Lorg/apache/axis/encoding/Deserializer;getTypeDesc()Lorg/apache/axis/description/TypeDesc;class\$(Ljava/lang/String;)Ljava/lang/Class;x1"Ljava/lang/ClassNotFoundException;x0<clinit>()V
SourceFilePermission.javag
java/lang/ClassNotFoundExceptionjava/lang/NoClassDefFoundErrorDI/0128org/jets3t/service/impl/soap/axis/_2006_03_01/Permission"java/lang/IllegalArgumentExceptionMNXLVW+org/apache/axis/encoding/ser/EnumSerializerD
-
org/apache/axis/encoding/ser/EnumDeserializer?@java/util/HashMapDE9::;<:=>:\$org/apache/axis/description/TypeDescAB8org.jets3t.service.impl.soap.axis._2006_03_01.PermissionfgDjavax/xml/namespace/QName'http://s3.amazonaws.com/doc/2006-03-01/
PermissionDjava/lang/Objectjava/io/Serializablejava/io/ObjectStreamExceptionjava/lang/ClassNotFoundException
initCause,(Ljava/lang/Throwable;)Ljava/lang/Throwable;put8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;get&(Ljava/lang/Object;)Ljava/lang/Object;java/lang/String(Ljava/lang/Class;Ljavax/xml/namespace/QName;)V(Ljava/lang/Class;)V(Ljava/lang/String;Ljava/lang/String;)V
setXmlType(Ljavax/xml/namespace/QName;)V!-/0
12304504604704804!9::;<:=>:
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permissiontoString(Ljava/lang/String;hashCode()Iequals(Ljava/lang/Object;)ZobjLjava/lang/Object;<clinit>()V
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 mberTableLocalVariableTableusergroup<init>()Vthis2Lorg/apache/hadoop/fs/permission/PermissionStatus;U(Ljava
 /lang/String;Ljava/lang/String;Lorg/apache/hadoop/fs/permission/FsPermission;)VgetUserName(Ljava/lang/String;
 getGroupName
 getPermission0()Lorg/apache/hadoop/fs/permission/FsPermission;
 applyUMaskb(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/PermissionStat
 us;umask
 readFields(Ljava/io/DataInput;)VinLjava/io/DataInput;
 Exceptionsiwrite(Ljava/io/DataOutput;)VoutLjava/io/DataOutput;readG(Ljava/io/DataInput;)Lorg/apache/hadoop/fs
 /permission/PermissionStatus;pi(Ljava/io/DataOutput;Ljava/lang/String;Ljava/lang/String;Lorg/apache/hadoop/fs/pe
 rmission/FsPermission;)VtoStringInnerClasses7(Lorg/apache/hadoop/fs/permission/PermissionStatus\$1;)Vx04Lorg/
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 SourceFilePermissionStatus.java*+2org/apache/hadoop/fs/permission/PermissionStatus\$2*.
 !"j4klmnAo=D0org/apache/hadoop/fs/permission/PermissionStatus78pq=>java/lang/StringBuilderrtE02org/apach
 e/hadoop/fs/permission/PermissionStatus\$1uvwjava/lang/Objectorg/apache/hadoop/io/Writablejava/io/IOException,
 org/apache/hadoop/fs/permission/FsPermission^(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/had
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 readString(Ljava/io/DataInput;)Ljava/lang/String;C(Ljava/io/DataInput;)Lorg/apache/hadoop/fs/permission/FsPerm
 ission;writeString(Ljava/io/DataOutput;Ljava/lang/String;)Iappend(Ljava/lang/String;)Ljava/lang/StringBuilder;-
 (Ljava/lang/Object;)Ljava/lang/StringBuilder;&org/apache/hadoop/io/WritableFactories
 setFactory:(Ljava/lang/Class;Lorg/apache/hadoop/io/WritableFactory;)V! !"#%\$%IY*+,&(')!"+%/*&6',-
 *.%1**+*,*-&9: ;<='*,-(!"/0%/*&@',-10%/*&C',-23%/*&F',-45%F**+*&
 MN',-6"78%Y*+ *+ *+
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```
<init>()VCodeLineNumberTableLocalVariableTablethisInnerClasses0Lorg/apache/hadoop/fs/permission/FsPermiss  
ion$1;newInstance!()Lorg/apache/hadoop/io/Writable;  
SourceFileFsPermission.javaEnclosingMethod,org/apache/hadoop/fs/permission/FsPermission.org/apache/hadoop/f  
s/permission/FsPermission$1java/lang/Object$org/apache/hadoop/io/WritableFactory3(Lorg/apache/hadoop/fs/perm  
ission/FsPermission$1;)V0 /*
```

% 3 Y

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ImmutableFsPermissionInnerClassesLOG

Lorg/apache/commons/logging/Log;FACTORY&Lorg/apache/hadoop/io/WritableFactory;

useraction*Lorg/apache/hadoop/fs/permission/FsAction;groupactionotheractionDEPRECATED_UMASK_LABEL

Ljava/lang/String;

ConstantValueUMASK_LABEL

DEFAULT_UMASKIcreateImmutable1(S)Lorg/apache/hadoop/fs/permission/FsPermission;CodeLineNumberTable

LocalVariableTable

permissionS<init>()Vthis.Lorg/apache/hadoop/fs/permission/FsPermission;(Lorg/apache/hadoop/fs/permission/FsA

ction;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;)Vugo(S)Vmode1(L

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org/apache/hadoop/fs/permission/FsPermission;)Vother(Ljava/lang/String;)V
getUserAction,()Lorg/apache/hadoop/fs/permission/FsAction;getGroupActiongetOtherActionset
fromShortnv+[Lorg/apache/hadoop/fs/permission/FsAction;write(Ljava/io/DataOutput;)VoutLjava/io/DataOutput;
Exceptions
readFields(Ljava/io/DataInput;)VinLjava/io/DataInput;readC(Ljava/io/DataInput;)Lorg/apache/hadoop/fs/permisio
n/FsPermission;ptoShort()Ssequals(Ljava/lang/Object;)ZthatobjLjava/lang/Object;
StackMapTablehashCode()ItoString()Ljava/lang/String;
applyUMask^(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/FsPermission;u
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Lorg/apache/hadoop/fs/permission/FsPermission;)V
getDefault0(Lorg/apache/hadoop/fs/permission/FsPermission;valueOfB(Ljava/lang/String;)Lorg/apache/hadoop/fs/
permission/FsPermission;cCiunixSymbolicPermission3(Lorg/apache/hadoop/fs/permission/FsPermission$1;)Vx00L
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ava/lang/StringBuilderB~]OS dfs.umask9:rdfs.umask configuration key is deprecated. Convert to dfs.umaskmode,
using octal or symbolic umask specifications.
dfs.umaskmode%1$03ojava/lang/Object`}"java/lang/IllegalArgumentException$length !=
10(unixSymbolicPermission=).org/apache/hadoop/fs/permission/FsPermission$1;<org/apache/hadoop/io/Writableja
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StackMapTablexz{|

ExceptionsapplyNormalPattern.(Ljava/lang/String;Ljava/util/regex/Matcher;)V carr\${Clen\$Ii\$strtypeusergroupothers modeicommaSeperatedAapplyOctalPatterncombineModes(I Z)I existingexeOkcombineModeSegments(CIIZ)I capX SourceFilePermissionParser.java* }

!&'('){5~|=>N>"java/lang/IllegalArgumentException*zHjava/lang/RuntimeException

Unexpected"#\$%##,ST0org/apache/hadoop/fs/permission/PermissionParserjava/lang/Objectjava/lang/Stringjava/util/regex/Patternjava/util/regex/Matcher()V3(Ljava/lang/CharSequence;)Ljava/util/regex/Matcher;find()Z matches(Ljava/lang/String;)V end()I length(I)Ljava/lang/String;charAt(I)C toCharArray()[C contains(Ljava/lang/CharSequence;)Z substring(II)Ljava/lang/String;java/lang/ShortvalueOf%(Ljava/lang/String;)Ljava/lang/Short;

shortValue()S !"#\$%#&'()*+X***+*+*+.;+Y:

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rTableLocalVariableTablethis-Lorg/apache/hadoop/fs/permission/ChmodParser;modeStrLjava/lang/String;

Exceptions:applyNewPermission\$(Lorg/apache/hadoop/fs/FileStatus;)Sfile!Lorg/apache/hadoop/fs/FileStatus;perms

.Lorg/apache/hadoop/fs/permission/FsPermission;existingIexeOkZ

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SourceFileChmodParser.java

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onParser"java/lang/IllegalArgumentException,org/apache/hadoop/fs/permission/FsPermissionG(Ljava/lang/String;L

java/util/regex/Pattern;Ljava/util/regex/Pattern;)Vorg/apache/hadoop/fs/FileStatus

getPermission0(Lorg/apache/hadoop/fs/permission/FsPermission;toShort()SisDir()ZcombineModes(IZ)Ijava/util/re

gex/Patterncompile-(Ljava/lang/String;)Ljava/util/regex/Pattern;!

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ConstantValue<init>()VCodeLineNumberTableLocalVariableTablethis8Lorg/apache/hadoop/fs/permission/Access
ControlException;(Ljava/lang/String;)VsLjava/lang/String;(Ljava/lang/Throwable;)VcauseLjava/lang/Throwable;
SourceFileAccessControlException.java

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denied.6org/apache/hadoop/fs/permission/AccessControlExceptionjava/io/IOException!

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1.25 amdefine-1.0.1.tgz 1.0.1

1.26 amqp-client-2.8.6.jar 2.8.6

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1.28 amqp-client-5.5.2.jar 5.5.2

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1.29 android-json-0.0.20131108.vaadin1.jar 0.0.20131108.vaadin1

1.30 anet-java-sdk-1.8.2.jar 1.8.2

1.31 animal-sniffer-annotations-1.14.jar 1.14

1.32 annotations 2.0.1

1.32.1 Available under license :

Lists of 19 third-party dependencies.

(GLPv3 with Classpath Exception) Crypt (com.cedarsoft.commons:crypt:5.1.7 - <http://www.cedarsoft.org/commons/crypt>)

(GLPv3 with Classpath Exception) Test Utils (com.cedarsoft.commons:test-utils:5.1.7 - <http://www.cedarsoft.org/commons/test-utils>)

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(BSD License) XMLUnit for Java (xmlunit:xmlunit:1.4 - <http://xmlunit.sourceforge.net/>)

1.33 annotations-17.0.0.jar 17.0.0

1.34 annotations-3.0.1.jar 3.0.1

1.34.1 Available under license :

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1.49 aopalliance-repackaged-2.5.0-b32.jar 2.5.0-b32

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1.52 apiguardian-api-1.1.0.jar 1.1.0

1.53 arch-2.1.1.tgz 2.1.1

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1.59 array-unique-0.3.2.tgz 0.3.2

1.60 asap-2.0.6.tgz 2.0.6

1.61 asciidoctorj-1.6.1.jar 1.6.1

1.62 asciidoctorj-api-1.6.1.jar 1.6.1

1.63 asm-5.0.3.jar 5.0.3

1.64 asm-5.0.4.jar 5.0.4

1.65 asn1-0.2.4.tgz 0.2.4

1.66 aspectjrt-1.8.14.jar 1.8.14

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1.68 aspectjtools-1.8.7.jar 1.8.7

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- * Bug 458396 - NPE in CodeStream.invoke()

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1.69 aspectjweaver-1.8.14.jar 1.8.14

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1.70 aspectjweaver-1.8.7.jar 1.8.7

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1.71 assert-plus-1.0.0.tgz 1.0.0

1.72 assertj-core-2.6.0.jar 2.6.0

1.73 assertj-core-3.13.2.jar 3.13.2

1.74 assign-symbols-1.0.0.tgz 1.0.0

1.75 ast-types-0.10.1.tgz 0.10.1

1.76 ast-types-0.9.6.tgz 0.9.6

1.77 astral-regex-1.0.0.tgz 1.0.0

1.78 **async 0.1.1**

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1.79 **async-2.6.1.tgz 2.6.1**

1.80 **async-2.6.3.tgz 2.6.3**

1.81 **asynckit-0.4.0.tgz 0.4.0**

1.82 **atomikos-util-4.0.0.jar 4.0.0**

1.83 **automaton-1.11-8.jar 1.11-8**

1.84 autoprefixer-7.2.3.tgz 7.2.3

1.85 aws-sign2-0.7.0.tgz 0.7.0

1.86 aws4-1.9.1.tgz 1.9.1

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1.87 axios-0.19.0.tgz 0.19.0

1.88 azure-1.21.0.jar 1.21.0

1.89 azure-annotations-1.7.0.jar 1.7.0

1.90 azure-arm-client-runtime-1.6.1.jar 1.6.1

1.91 azure-client-authentication-1.6.4.jar 1.6.4

1.92 azure-client-runtime-1.6.4.jar 1.6.4

1.93 azure-keyvault-1.0.0.jar 1.0.0

1.94 azure-keyvault-core-1.0.0.jar 1.0.0

1.95 azure-keyvault-webkey-1.0.0.jar 1.0.0

1.96 azure-mgmt-appservice-1.21.0.jar 1.21.0

1.97 azure-mgmt-batch-1.21.0.jar 1.21.0

1.98 azure-mgmt-batchai-1.21.0.jar 1.21.0

1.99 azure-mgmt-cdn-1.21.0.jar 1.21.0

1.100 azure-mgmt-compute-1.21.0.jar 1.21.0

**1.101 azure-mgmt-containerinstance-
1.21.0.jar 1.21.0**

**1.102 azure-mgmt-containerregistry-1.21.0.jar
1.21.0**

**1.103 azure-mgmt-containerservice-1.21.0.jar
1.21.0**

1.104 azure-mgmt-cosmosdb-1.21.0.jar 1.21.0

1.105 azure-mgmt-dns-1.21.0.jar 1.21.0

1.106 azure-mgmt-eventhub-1.21.0.jar 1.21.0

1.107 azure-mgmt-graph-rbac-1.21.0.jar 1.21.0

1.108 azure-mgmt-keyvault-1.21.0.jar 1.21.0

1.109 azure-mgmt-locks-1.21.0.jar 1.21.0

1.110 azure-mgmt-monitor-1.21.0.jar 1.21.0

1.111 azure-mgmt-msi-1.21.0.jar 1.21.0

1.112 azure-mgmt-mysql-1.0.0-beta-2.jar

1.0.0-beta-2

1.113 azure-mgmt-network-1.21.0.jar 1.21.0

1.114 azure-mgmt-postgresql-1.0.0-beta-4.jar

1.0.0-beta-4

1.115 azure-mgmt-redis-1.21.0.jar 1.21.0

1.116 azure-mgmt-resources-1.21.0.jar 1.21.0

1.117 azure-mgmt-search-1.21.0.jar 1.21.0

1.118 azure-mgmt-servicebus-1.21.0.jar 1.21.0

1.119 azure-mgmt-sql-1.21.0.jar 1.21.0

1.120 azure-mgmt-storage-1.21.0.jar 1.21.0

**1.121 azure-mgmt-trafficmanager-1.21.0.jar
1.21.0**

1.122 azure-storage-8.2.0.jar 8.2.0

1.123 b64-to-blob-1.2.19.tgz 1.2.19

1.124 babel-code-frame-6.26.0.tgz 6.26.0

**1.125 babel-helper-bindify-decorators-
6.24.1.tgz 6.24.1**

**1.126 babel-helper-builder-binary-
assignment-operator-visitor-6.24.1.tgz 6.24.1**

**1.127 babel-helper-explode-assignable-
expression-6.24.1.tgz 6.24.1**

**1.128 babel-helper-explode-class-6.24.1.tgz
6.24.1**

**1.129 babel-helper-function-name-6.24.1.tgz
6.24.1**

**1.130 babel-helper-get-function-arity-
6.24.1.tgz 6.24.1**

1.131 babel-helper-remap-async-to-generator-6.24.1.tgz 6.24.1

1.132 babel-messages-6.23.0.tgz 6.23.0

1.133 babel-plugin-emotion-9.2.11.tgz 9.2.11

1.134 babel-plugin-macros-2.8.0.tgz 2.8.0

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1.135 babel-plugin-styled-components-

1.10.7.tgz 1.10.7

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1.136 babel-plugin-syntax-async-functions-

6.13.0.tgz 6.13.0

1.137 babel-plugin-syntax-async-generators-

6.13.0.tgz 6.13.0

1.138 babel-plugin-syntax-class-constructor-

call-6.18.0.tgz 6.18.0

**1.139 babel-plugin-syntax-class-properties-
6.13.0.tgz 6.13.0**

**1.140 babel-plugin-syntax-decorators-
6.13.0.tgz 6.13.0**

**1.141 babel-plugin-syntax-dynamic-import-
6.18.0.tgz 6.18.0**

**1.142 babel-plugin-syntax-exponentiation-
operator-6.13.0.tgz 6.13.0**

**1.143 babel-plugin-syntax-export-extensions-
6.13.0.tgz 6.13.0**

**1.144 babel-plugin-syntax-jsx-6.18.0.tgz
6.18.0**

1.145 babel-plugin-syntax-object-rest-spread-6.13.0.tgz 6.13.0

1.146 babel-plugin-syntax-trailing-function-commas-6.22.0.tgz 6.22.0

1.147 babel-plugin-transform-async-generator-functions-6.24.1.tgz 6.24.1

1.148 babel-plugin-transform-async-to-generator-6.24.1.tgz 6.24.1

1.149 babel-plugin-transform-class-constructor-call-6.24.1.tgz 6.24.1

1.150 babel-plugin-transform-class-properties-6.24.1.tgz 6.24.1

1.151 babel-plugin-transform-decorators-6.24.1.tgz 6.24.1

1.152 babel-plugin-transform-exponentiation-operator-6.24.1.tgz 6.24.1

1.153 babel-plugin-transform-export-extensions-6.22.0.tgz 6.22.0

1.154 babel-plugin-transform-object-rest-spread-6.26.0.tgz 6.26.0

1.155 babel-polyfill 6.23.0

1.156 babel-polyfill-6.26.0.tgz 6.26.0

1.157 babel-preset-stage-1-6.24.1.tgz 6.24.1

1.158 babel-preset-stage-2-6.24.1.tgz 6.24.1

1.159 babel-preset-stage-3-6.24.1.tgz 6.24.1

1.160 babel-runtime-6.26.0.tgz 6.26.0

1.161 babel-template-6.26.0.tgz 6.26.0

1.162 babel-traverse-6.26.0.tgz 6.26.0

1.163 babel-types-6.26.0.tgz 6.26.0

1.164 babel-utils-0.6.10.tgz 0.6.10

1.165 babylon-5.8.38.tgz 5.8.38

1.166 babylon-6.18.0.tgz 6.18.0

1.167 backbone 1.1.2

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1.168 backbone-1.1.2.tgz 1.1.2

1.169 backbone-1.4.0.tgz 1.4.0

1.170 backbone.paginator 2.0.1

1.170.1 Available under license :

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```
/* =====  
* bootstrap-transition.js v2.2.2  
* http://twitter.github.com/bootstrap/javascript.html#transitions  
* =====  
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* See the License for the specific language governing permissions and  
* limitations under the License.  
* ===== */
```

```
!function ($) {
```

```
"use strict"; // jshint ;_;
```

```
/* CSS TRANSITION SUPPORT (http://www.modernizr.com/)
```

```
* ===== */
```

```
$(function () {
```

```
$.support.transition = (function () {
```

```
var transitionEnd = (function () {
```

```
var el = document.createElement('bootstrap')
```

```
, transEndEventNames = {
```

```
  'WebkitTransition': 'webkitTransitionEnd'
```

```
, 'MozTransition' : 'transitionend'
```

```
, 'OTransition' : 'oTransitionEnd otransitionend'
```

```
, 'transition' : 'transitionend'
```

```
 }
```

```
, name
```

```
for (name in transEndEventNames){
```

```
  if (el.style[name] !== undefined) {
```

```

        return transEndEventNames[name]
    }
}

}())

return transitionEnd && {
    end: transitionEnd
}

})()

})

})(window.jQuery);/* =====
* bootstrap-alert.js v2.2.2
* http://twitter.github.com/bootstrap/javascript.html#alerts
* =====
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* ===== */

!function ($) {

    "use strict"; // jshint ;_

    /* ALERT CLASS DEFINITION
    * ===== */

    var dismiss = '[data-dismiss="alert"]'
    , Alert = function (el) {
        $(el).on('click', dismiss, this.close)
    }

    Alert.prototype.close = function (e) {

```

```

var $this = $(this)
  , selector = $this.attr('data-target')
  , $parent

if (!selector) {
  selector = $this.attr('href')
  selector = selector && selector.replace(/.*(?:#[^\s]*$)/, "") //strip for ie7
}

$parent = $(selector)

e && e.preventDefault()

$parent.length || ($parent = $this.hasClass('alert') ? $this : $this.parent())

$parent.trigger(e = $.Event('close'))

if (e.isDefaultPrevented()) return

$parent.removeClass('in')

function removeElement() {
  $parent
    .trigger('closed')
    .remove()
}

$.support.transition && $parent.hasClass('fade') ?
  $parent.on($.support.transition.end, removeElement) :
  removeElement()
}

/* ALERT PLUGIN DEFINITION
* ===== */

var old = $.fn.alert

$.fn.alert = function (option) {
  return this.each(function () {
    var $this = $(this)
      , data = $this.data('alert')
    if (!data) $this.data('alert', (data = new Alert(this)))
    if (typeof option == 'string') data[option].call($this)
  })
}

$.fn.alert.Constructor = Alert

```

```

/* ALERT NO CONFLICT
* ===== */

$.fn.alert.noConflict = function () {
  $.fn.alert = old
  return this
}

/* ALERT DATA-API
* ===== */

$(document).on('click.alert.data-api', dismiss, Alert.prototype.close)

}(window.jQuery);/* =====
* bootstrap-button.js v2.2.2
* http://twitter.github.com/bootstrap/javascript.html#buttons
* =====
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* ===== */

!function ($) {

  "use strict"; // jshint ;_;

  /* BUTTON PUBLIC CLASS DEFINITION
  * ===== */

  var Button = function (element, options) {
    this.$element = $(element)
    this.options = $.extend({}, $.fn.button.defaults, options)
  }

```

```

Button.prototype.setState = function (state) {
  var d = 'disabled'
    , $el = this.$element
    , data = $el.data()
    , val = $el.is('input') ? 'val' : 'html'

  state = state + 'Text'
  data.resetText || $el.data('resetText', $el[val]())

  $el[val](data[state] || this.options[state])

  // push to event loop to allow forms to submit
  setTimeout(function () {
    state == 'loadingText' ?
      $el.addClass(d).attr(d, d) :
      $el.removeClass(d).removeAttr(d)
  }, 0)
}

Button.prototype.toggle = function () {
  var $parent = this.$element.closest('[data-toggle="buttons-radio"]')

  $parent && $parent
    .find('.active')
    .removeClass('active')

  this.$element.toggleClass('active')
}

/* BUTTON PLUGIN DEFINITION
* ===== */

var old = $.fn.button

$.fn.button = function (option) {
  return this.each(function () {
    var $this = $(this)
      , data = $this.data('button')
      , options = typeof option == 'object' && option
    if (!data) $this.data('button', (data = new Button(this, options)))
    if (option == 'toggle') data.toggle()
    else if (option) data.setState(option)
  })
}

$.fn.button.defaults = {

```

```

    loadingText: 'loading...'
  }

$.fn.button.Constructor = Button

/* BUTTON NO CONFLICT
 * ===== */

$.fn.button.noConflict = function () {
  $.fn.button = old
  return this
}

/* BUTTON DATA-API
 * ===== */

$(document).on('click.button.data-api', '[data-toggle^=button]', function (e) {
  var $btn = $(e.target)
  if (!$btn.hasClass('btn')) $btn = $btn.closest('.btn')
  $btn.button('toggle')
})

})(window.jQuery);/* =====
 * bootstrap-carousel.js v2.2.2
 * http://twitter.github.com/bootstrap/javascript.html#carousel
 * =====
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 * limitations under the License.
 * ===== */

!function ($) {

  "use strict"; // jshint ;_;
```

```

/* CAROUSEL CLASS DEFINITION
* ===== */

var Carousel = function (element, options) {
  this.$element = $(element)
  this.options = options
  this.options.pause == 'hover' && this.$element
    .on('mouseenter', $.proxy(this.pause, this))
    .on('mouseleave', $.proxy(this.cycle, this))
}

Carousel.prototype = {

  cycle: function (e) {
    if (!e) this.paused = false
    this.options.interval
      && !this.paused
      && (this.interval = setInterval($.proxy(this.next, this), this.options.interval))
    return this
  }

, to: function (pos) {
  var $active = this.$element.find('.item.active')
    , children = $active.parent().children()
    , activePos = children.index($active)
    , that = this

  if (pos > (children.length - 1) || pos < 0) return

  if (this.sliding) {
    return this.$element.one('slid', function () {
      that.to(pos)
    })
  }

  if (activePos == pos) {
    return this.pause().cycle()
  }

  return this.slide(pos > activePos ? 'next' : 'prev', $(children[pos]))
}

, pause: function (e) {
  if (!e) this.paused = true
  if (this.$element.find('.next, .prev').length && $.support.transition.end) {
    this.$element.trigger($.support.transition.end)
    this.cycle()
  }
}

```

```

    }
    clearInterval(this.interval)
    this.interval = null
    return this
  }

, next: function () {
  if (this.sliding) return
  return this.slide('next')
}

, prev: function () {
  if (this.sliding) return
  return this.slide('prev')
}

, slide: function (type, next) {
  var $active = this.$element.find('.item.active')
  , $next = next || $active[type]()
  , isCycling = this.interval
  , direction = type == 'next' ? 'left' : 'right'
  , fallback = type == 'next' ? 'first' : 'last'
  , that = this
  , e

  this.sliding = true

  isCycling && this.pause()

  $next = $next.length ? $next : this.$element.find('.item')[fallback]()

  e = $.Event('slide', {
    relatedTarget: $next[0]
  })

  if ($next.hasClass('active')) return

  if ($.support.transition && this.$element.hasClass('slide')) {
    this.$element.trigger(e)
    if (e.isDefaultPrevented()) return
    $next.addClass(type)
    $next[0].offsetWidth // force reflow
    $active.addClass(direction)
    $next.addClass(direction)
    this.$element.one($.support.transition.end, function () {
      $next.removeClass([type, direction].join(' ')).addClass('active')
      $active.removeClass(['active', direction].join(' '))
      that.sliding = false
    })
  }

```

```

        setTimeout(function () { that.$element.trigger('slid' ), 0)
    })
} else {
    this.$element.trigger(e)
    if (e.isDefaultPrevented()) return
    $active.removeClass('active')
    $next.addClass('active')
    this.sliding = false
    this.$element.trigger('slid')
}

isCycling && this.cycle()

return this
}

}

/* CAROUSEL PLUGIN DEFINITION
* ===== */

var old = $.fn.carousel

$.fn.carousel = function (option) {
    return this.each(function () {
        var $this = $(this)
            , data = $this.data('carousel')
            , options = $.extend({}, $.fn.carousel.defaults, typeof option == 'object' && option)
            , action = typeof option == 'string' ? option : options.slide
        if (!data) $this.data('carousel', (data = new Carousel(this, options)))
        if (typeof option == 'number') data.to(option)
        else if (action) data[action]()
        else if (options.interval) data.cycle()
    })
}

$.fn.carousel.defaults = {
    interval: 5000
    , pause: 'hover'
}

$.fn.carousel.Constructor = Carousel

/* CAROUSEL NO CONFLICT
* ===== */

```

```

$.fn.carousel.noConflict = function () {
  $.fn.carousel = old
  return this
}

/* CAROUSEL DATA-API
 * ===== */

$(document).on('click.carousel.data-api', '[data-slide]', function (e) {
  var $this = $(this), href
  , $target = $($this.attr('data-target') || (href = $this.attr('href')) && href.replace(/.*(?=#[^\s]+$)/, '')) //strip for ie7
  , options = $.extend({}, $target.data(), $this.data())
  $target.carousel(options)
  e.preventDefault()
})

}(window.jQuery);/* =====
 * bootstrap-collapse.js v2.2.2
 * http://twitter.github.com/bootstrap/javascript.html#collapse
 * =====
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 * ===== */

!function ($) {

  "use strict"; // jshint ;_;

  /* COLLAPSE PUBLIC CLASS DEFINITION
   * ===== */

  var Collapse = function (element, options) {
    this.$element = $(element)
    this.options = $.extend({}, $.fn.collapse.defaults, options)

```

```

if (this.options.parent) {
  this.$parent = $(this.options.parent)
}

this.options.toggle && this.toggle()
}

Collapse.prototype = {

  constructor: Collapse

, dimension: function () {
  var hasWidth = this.$element.hasClass('width')
  return hasWidth ? 'width' : 'height'
}

, show: function () {
  var dimension
    , scroll
    , actives
    , hasData

  if (this.transitioning) return

  dimension = this.dimension()
  scroll = $.camelCase(['scroll', dimension].join('-'))
  actives = this.$parent && this.$parent.find('> .accordion-group > .in')

  if (actives && actives.length) {
    hasData = actives.data('collapse')
    if (hasData && hasData.transitioning) return
    actives.collapse('hide')
    hasData || actives.data('collapse', null)
  }

  this.$element[dimension](0)
  this.transition('addClass', $.Event('show'), 'shown')
  $.support.transition && this.$element[dimension](this.$element[0][scroll])
}

, hide: function () {
  var dimension

  if (this.transitioning) return
  dimension = this.dimension()
  this.reset(this.$element[dimension]())
  this.transition('removeClass', $.Event('hide'), 'hidden')
  this.$element[dimension](0)
}
}

```

```

, reset: function (size) {
    var dimension = this.dimension()

    this.$element
        .removeClass('collapse')
        [dimension](size || 'auto')
        [0].offsetWidth

    this.$element[size !== null ? 'addClass' : 'removeClass']('collapse')

    return this
}

, transition: function (method, startEvent, completeEvent) {
    var that = this
        , complete = function () {
            if (startEvent.type == 'show') that.reset()
            that.transitioning = 0
            that.$element.trigger(completeEvent)
        }

    this.$element.trigger(startEvent)

    if (startEvent.isDefaultPrevented()) return

    this.transitioning = 1

    this.$element[method]('in')

    $.support.transition && this.$element.hasClass('collapse') ?
        this.$element.one($.support.transition.end, complete) :
        complete()
}

, toggle: function () {
    this[this.$element.hasClass('in') ? 'hide' : 'show']()
}

}

/* COLLAPSE PLUGIN DEFINITION
* ===== */

var old = $.fn.collapse

$.fn.collapse = function (option) {

```

```

return this.each(function () {
  var $this = $(this)
    , data = $this.data('collapse')
    , options = typeof option == 'object' && option
  if (!data) $this.data('collapse', (data = new Collapse(this, options)))
  if (typeof option == 'string') data[option]()
})
}

$.fn.collapse.defaults = {
  toggle: true
}

$.fn.collapse.Constructor = Collapse

/* COLLAPSE NO CONFLICT
 * ===== */

$.fn.collapse.noConflict = function () {
  $.fn.collapse = old
  return this
}

/* COLLAPSE DATA-API
 * ===== */

$(document).on('click.collapse.data-api', '[data-toggle=collapse]', function (e) {
  var $this = $(this), href
    , target = $this.attr('data-target')
    || e.preventDefault()
    || (href = $this.attr('href')) && href.replace(/.*(?=#[^\s]+$)/, "") //strip for ie7
    , option = $(target).data('collapse') ? 'toggle' : $this.data()
  $this[$(target).hasClass('in') ? 'addClass' : 'removeClass']('collapsed')
  $(target).collapse(option)
})

}(window.jQuery);/* =====
 * bootstrap-dropdown.js v2.2.2
 * http://twitter.github.com/bootstrap/javascript.html#dropdowns
 * =====
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 *

```

```

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* ===== */

```

```
!function ($) {
```

```
"use strict"; // jshint ;_;
```

```
/* DROPDOWN CLASS DEFINITION
* ===== */
```

```
var toggle = '[data-toggle=dropdown]'
, Dropdown = function (element) {
  var $el = $(element).on('click.dropdown.data-api', this.toggle)
  $('html').on('click.dropdown.data-api', function () {
    $el.parent().removeClass('open')
  })
}

```

```
Dropdown.prototype = {
```

```
  constructor: Dropdown
```

```
, toggle: function (e) {
  var $this = $(this)
  , $parent
  , isActive
```

```
  if (!$this.is('.disabled, :disabled')) return
```

```
  $parent = getParent($this)
```

```
  isActive = $parent.hasClass('open')
```

```
  clearMenus()
```

```
  if (!isActive) {
    $parent.toggleClass('open')
  }

```

```
  $this.focus()

```

```

    return false
  }

, keydown: function (e) {
  var $this
    , $items
    , $active
    , $parent
    , isActive
    , index

  if (!(38|40|27).test(e.keyCode)) return

  $this = $(this)

  e.preventDefault()
  e.stopPropagation()

  if ($this.is(':disabled, :disabled')) return

  $parent = getParent($this)

  isActive = $parent.hasClass('open')

  if (!isActive || (isActive && e.keyCode == 27)) return $this.click()

  $items = $('[role=menu] li:not(.divider):visible a', $parent)

  if (!$items.length) return

  index = $items.index($items.filter(':focus'))

  if (e.keyCode == 38 && index > 0) index--           // up
  if (e.keyCode == 40 && index < $items.length - 1) index++           // down
  if (!~index) index = 0

  $items
    .eq(index)
    .focus()
  }
}

function clearMenus() {
  $(toggle).each(function () {
    getParent($(this)).removeClass('open')
  })
}

```

```

}

function getParent($this) {
  var selector = $this.attr('data-target')
    , $parent

  if (!selector) {
    selector = $this.attr('href')
    selector = selector && /#/.test(selector) && selector.replace(/.*(?=#[^\s]*$)/, '') //strip for ie7
  }

  $parent = $(selector)
  $parent.length || ($parent = $this.parent())

  return $parent
}

/* DROPDOWN PLUGIN DEFINITION
* ===== */

var old = $.fn.dropdown

$.fn.dropdown = function (option) {
  return this.each(function () {
    var $this = $(this)
      , data = $this.data('dropdown')
    if (!data) $this.data('dropdown', (data = new Dropdown(this)))
    if (typeof option == 'string') data[option].call($this)
  })
}

$.fn.dropdown.Constructor = Dropdown

/* DROPDOWN NO CONFLICT
* ===== */

$.fn.dropdown.noConflict = function () {
  $.fn.dropdown = old
  return this
}

/* APPLY TO STANDARD DROPDOWN ELEMENTS
* ===== */

$(document)

```

```

.on('click.dropdown.data-api touchstart.dropdown.data-api', clearMenus)
.on('click.dropdown touchstart.dropdown.data-api', '.dropdown form', function (e) { e.stopPropagation() })
.on('touchstart.dropdown.data-api', '.dropdown-menu', function (e) { e.stopPropagation() })
.on('click.dropdown.data-api touchstart.dropdown.data-api' , toggle, Dropdown.prototype.toggle)
.on('keydown.dropdown.data-api touchstart.dropdown.data-api', toggle + ' ', [role='menu']',
Dropdown.prototype.keydown)

```

```

}(window.jQuery);/* =====
* bootstrap-modal.js v2.2.2
* http://twitter.github.com/bootstrap/javascript.html#modals
* =====
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* limitations under the License.
* ===== */

```

```

!function ($) {

"use strict"; // jshint ;_

/* MODAL CLASS DEFINITION
* ===== */

var Modal = function (element, options) {
  this.options = options
  this.$element = $(element)
  .delegate("[data-dismiss='modal']", 'click.dismiss.modal', $.proxy(this.hide, this))
  this.options.remote && this.$element.find('.modal-body').load(this.options.remote)
}

Modal.prototype = {

  constructor: Modal

  , toggle: function () {
    return this[!this.isShown ? 'show' : 'hide']()
  }
}

```

```

}

, show: function () {
  var that = this
  , e = $.Event('show')

  this.$element.trigger(e)

  if (this.isShown || e.isDefaultPrevented()) return

  this.isShown = true

  this.escape()

  this.backdrop(function () {
    var transition = $.support.transition && that.$element.hasClass('fade')

    if (!that.$element.parent().length) {
      that.$element.appendTo(document.body) //don't move modals dom position
    }

    that.$element
      .show()

    if (transition) {
      that.$element[0].offsetWidth // force reflow
    }

    that.$element
      .addClass('in')
      .attr('aria-hidden', false)

    that.enforceFocus()

    transition ?
      that.$element.one($.support.transition.end, function () { that.$element.focus().trigger('shown') }) :
      that.$element.focus().trigger('shown')

  })
}

, hide: function (e) {
  e && e.preventDefault()

  var that = this

  e = $.Event('hide')

```

```

this.$element.trigger(e)

if (!this.isShown || e.isDefaultPrevented()) return

this.isShown = false

this.escape()

$(document).off('focusin.modal')

this.$element
  .removeClass('in')
  .attr('aria-hidden', true)

$.support.transition && this.$element.hasClass('fade') ?
  this.hideWithTransition() :
  this.hideModal()
}

, enforceFocus: function () {
  var that = this
  $(document).on('focusin.modal', function (e) {
    if (that.$element[0] !== e.target && !that.$element.has(e.target).length) {
      that.$element.focus()
    }
  })
}

, escape: function () {
  var that = this
  if (this.isShown && this.options.keyboard) {
    this.$element.on('keyup.dismiss.modal', function ( e ) {
      e.which == 27 && that.hide()
    })
  } else if (!this.isShown) {
    this.$element.off('keyup.dismiss.modal')
  }
}

, hideWithTransition: function () {
  var that = this
  , timeout = setTimeout(function () {
    that.$element.off($.support.transition.end)
    that.hideModal()
  }, 500)

  this.$element.one($.support.transition.end, function () {
    clearTimeout(timeout)
  })
}

```

```

        that.hideModal()
    })
}

, hideModal: function (that) {
    this.$element
        .hide()
        .trigger('hidden')

    this.backdrop()
}

, removeBackdrop: function () {
    this.$backdrop.remove()
    this.$backdrop = null
}

, backdrop: function (callback) {
    var that = this
        , animate = this.$element.hasClass('fade') ? 'fade' : ''

    if (this.isShown && this.options.backdrop) {
        var doAnimate = $.support.transition && animate

        this.$backdrop = $('<div class="modal-backdrop ' + animate + '" />')
            .appendTo(document.body)

        this.$backdrop.click(
            this.options.backdrop == 'static' ?
                $.proxy(this.$element[0].focus, this.$element[0])
            : $.proxy(this.hide, this)
        )

        if (doAnimate) this.$backdrop[0].offsetWidth // force reflow

        this.$backdrop.addClass('in')

        doAnimate ?
            this.$backdrop.one($.support.transition.end, callback) :
            callback()

    } else if (!this.isShown && this.$backdrop) {
        this.$backdrop.removeClass('in')

        $.support.transition && this.$element.hasClass('fade')?
            this.$backdrop.one($.support.transition.end, $.proxy(this.removeBackdrop, this)) :
            this.removeBackdrop()
    }
}

```

```

        } else if (callback) {
            callback()
        }
    }
}

/* MODAL PLUGIN DEFINITION
 * ===== */

var old = $.fn.modal

$.fn.modal = function (option) {
    return this.each(function () {
        var $this = $(this)
            , data = $this.data('modal')
            , options = $.extend({}, $.fn.modal.defaults, $this.data(), typeof option == 'object' && option)
            if (!data) $this.data('modal', (data = new Modal(this, options)))
            if (typeof option == 'string') data[option]()
            else if (options.show) data.show()
        })
    }

$.fn.modal.defaults = {
    backdrop: true
    , keyboard: true
    , show: true
}

$.fn.modal.Constructor = Modal

/* MODAL NO CONFLICT
 * ===== */

$.fn.modal.noConflict = function () {
    $.fn.modal = old
    return this
}

/* MODAL DATA-API
 * ===== */

$(document).on('click.modal.data-api', '[data-toggle="modal"]', function (e) {
    var $this = $(this)
        , href = $this.attr('href')
        , $target = $($this.attr('data-target') || (href && href.replace(/.*(?=#[^\s]+$)/, ''))) //strip for ie7

```

```

    , option = $target.data('modal') ? 'toggle' : $.extend({ remote:!/#.test(href) && href }, $target.data(), $this.data())

    e.preventDefault()

    $target
      .modal(option)
      .one('hide', function () {
        $this.focus()
      })
    })

  })(window.jQuery);

/* =====
* bootstrap-tooltip.js v2.2.2
* http://twitter.github.com/bootstrap/javascript.html#tooltips
* Inspired by the original jQuery.tipsy by Jason Frame
* =====
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* limitations under the License.
* ===== */

!function ($) {

  "use strict"; // jshint ;_

  /* TOOLTIP PUBLIC CLASS DEFINITION
  * ===== */

  var Tooltip = function (element, options) {
    this.init('tooltip', element, options)
  }

  Tooltip.prototype = {

    constructor: Tooltip
  }

```

```

, init: function (type, element, options) {
  var eventIn
    , eventOut

  this.type = type
  this.$element = $(element)
  this.options = this.getOptions(options)
  this.enabled = true

  if (this.options.trigger === 'click') {
    this.$element.on('click.' + this.type, this.options.selector, $.proxy(this.toggle, this))
  } else if (this.options.trigger !== 'manual') {
    eventIn = this.options.trigger === 'hover' ? 'mouseenter' : 'focus'
    eventOut = this.options.trigger === 'hover' ? 'mouseleave' : 'blur'
    this.$element.on(eventIn + '.' + this.type, this.options.selector, $.proxy(this.enter, this))
    this.$element.on(eventOut + '.' + this.type, this.options.selector, $.proxy(this.leave, this))
  }

  this.options.selector ?
    (this._options = $.extend({}, this.options, { trigger: 'manual', selector: "" })):
    this.fixTitle()
}

, getOptions: function (options) {
  options = $.extend({}, $.fn[this.type].defaults, options, this.$element.data())

  if (options.delay && typeof options.delay === 'number') {
    options.delay = {
      show: options.delay
      , hide: options.delay
    }
  }

  return options
}

, enter: function (e) {
  var self = $(e.currentTarget)[this.type](this._options).data(this.type)

  if (!self.options.delay || !self.options.delay.show) return self.show()

  clearTimeout(this.timeout)
  self.hoverState = 'in'
  this.timeout = setTimeout(function() {
    if (self.hoverState === 'in') self.show()
  }, self.options.delay.show)
}

```

```

, leave: function (e) {
    var self = $(e.currentTarget)[this.type](this._options).data(this.type)

    if (this.timeout) clearTimeout(this.timeout)
    if (!self.options.delay || !self.options.delay.hide) return self.hide()

    self.hoverState = 'out'
    this.timeout = setTimeout(function() {
        if (self.hoverState == 'out') self.hide()
    }, self.options.delay.hide)
}

, show: function () {
    var $tip
    , inside
    , pos
    , actualWidth
    , actualHeight
    , placement
    , tp

    if (this.hasContent() && this.enabled) {
        $tip = this.tip()
        this.setContent()

        if (this.options.animation) {
            $tip.addClass('fade')
        }

        placement = typeof this.options.placement == 'function' ?
            this.options.placement.call(this, $tip[0], this.$element[0]) :
            this.options.placement

        inside = /in/.test(placement)

        $tip
            .detach()
            .css({ top: 0, left: 0, display: 'block' })
            .insertAfter(this.$element)

        pos = this.getPosition(inside)

        actualWidth = $tip[0].offsetWidth
        actualHeight = $tip[0].offsetHeight

        switch (inside ? placement.split(' ')[1] : placement) {
            case 'bottom':

```

```

        tp = {top: pos.top + pos.height, left: pos.left + pos.width / 2 - actualWidth / 2}
        break
    case 'top':
        tp = {top: pos.top - actualHeight, left: pos.left + pos.width / 2 - actualWidth / 2}
        break
    case 'left':
        tp = {top: pos.top + pos.height / 2 - actualHeight / 2, left: pos.left - actualWidth}
        break
    case 'right':
        tp = {top: pos.top + pos.height / 2 - actualHeight / 2, left: pos.left + pos.width}
        break
    }

    $tip
        .offset(tp)
        .addClass(placement)
        .addClass('in')
    }
}

, setContent: function () {
    var $tip = this.tip()
        , title = this.getTitle()

    $tip.find('.tooltip-inner')[this.options.html ? 'html' : 'text'](title)
    $tip.removeClass('fade in top bottom left right')
}

, hide: function () {
    var that = this
        , $tip = this.tip()

    $tip.removeClass('in')

    function removeWithAnimation() {
        var timeout = setTimeout(function () {
            $tip.off($.support.transition.end).detach()
        }, 500)

        $tip.one($.support.transition.end, function () {
            clearTimeout(timeout)
            $tip.detach()
        })
    }

    $.support.transition && this.$tip.hasClass('fade') ?
        removeWithAnimation() :
        $tip.detach()
}

```

```

    return this
  }

  , fixTitle: function () {
    var $e = this.$element
    if ($e.attr('title') || typeof($e.attr('data-original-title')) != 'string') {
      $e.attr('data-original-title', $e.attr('title') || "").removeAttr('title')
    }
  }

  , hasContent: function () {
    return this.getTitle()
  }

  , getPosition: function (inside) {
    return $.extend({}, (inside ? {top: 0, left: 0} : this.$element.offset()), {
      width: this.$element[0].offsetWidth
      , height: this.$element[0].offsetHeight
    })
  }

  , getTitle: function () {
    var title
      , $e = this.$element
      , o = this.options

    title = $e.attr('data-original-title')
      || (typeof o.title == 'function' ? o.title.call($e[0]) : o.title)

    return title
  }

  , tip: function () {
    return this.$tip = this.$tip || $(this.options.template)
  }

  , validate: function () {
    if (!this.$element[0].parentNode) {
      this.hide()
      this.$element = null
      this.options = null
    }
  }

  , enable: function () {
    this.enabled = true
  }

```

```

, disable: function () {
    this.enabled = false
}

, toggleEnabled: function () {
    this.enabled = !this.enabled
}

, toggle: function (e) {
    var self = $(e.currentTarget)[this.type](this._options).data(this.type)
    self[self.tip().hasClass('in') ? 'hide' : 'show']()
}

, destroy: function () {
    this.hide().$element.off('.' + this.type).removeData(this.type)
}

}

/* TOOLTIP PLUGIN DEFINITION
* ===== */

var old = $.fn.tooltip

$.fn.tooltip = function ( option ) {
    return this.each(function () {
        var $this = $(this)
            , data = $this.data('tooltip')
            , options = typeof option == 'object' && option
        if (!data) $this.data('tooltip', (data = new Tooltip(this, options)))
        if (typeof option == 'string') data[option]()
    })
}

$.fn.tooltip.Constructor = Tooltip

$.fn.tooltip.defaults = {
    animation: true
, placement: 'top'
, selector: false
, template: '<div class="tooltip"><div class="tooltip-arrow"></div><div class="tooltip-inner"></div></div>'
, trigger: 'hover'
, title: ""
, delay: 0
, html: false
}

```

```

/* TOOLTIP NO CONFLICT
 * ===== */

$.fn.tooltip.noConflict = function () {
  $.fn.tooltip = old
  return this
}

}(window.jQuery);/* =====
* bootstrap-popover.js v2.2.2
* http://twitter.github.com/bootstrap/javascript.html#popovers
* =====
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* limitations under the License.
* ===== */

!function ($) {

  "use strict"; // jshint ;_

  /* POPOVER PUBLIC CLASS DEFINITION
   * ===== */

  var Popover = function (element, options) {
    this.init('popover', element, options)
  }

  /* NOTE: POPOVER EXTENDS BOOTSTRAP-TOOLTIP.js
   * ===== */

  Popover.prototype = $.extend({}, $.fn.tooltip.Constructor.prototype, {

```

```

constructor: Popover

, setContent: function () {
    var $tip = this.tip()
    , title = this.getTitle()
    , content = this.getContent()

    $tip.find('.popover-title')[this.options.html ? 'html' : 'text'](title)
    $tip.find('.popover-content')[this.options.html ? 'html' : 'text'](content)

    $tip.removeClass('fade top bottom left right in')
}

, hasContent: function () {
    return this.getTitle() || this.getContent()
}

, getContent: function () {
    var content
    , $e = this.$element
    , o = this.options

    content = $e.attr('data-content')
    || (typeof o.content == 'function' ? o.content.call($e[0]) : o.content)

    return content
}

, tip: function () {
    if (!this.$tip) {
        this.$tip = $(this.options.template)
    }
    return this.$tip
}

, destroy: function () {
    this.hide().$element.off('.' + this.type).removeData(this.type)
}

})

/* POPOVER PLUGIN DEFINITION
* ===== */

var old = $.fn.popover

$.fn.popover = function (option) {

```

```

return this.each(function () {
  var $this = $(this)
    , data = $this.data('popover')
    , options = typeof option == 'object' && option
  if (!data) $this.data('popover', (data = new Popover(this, options)))
  if (typeof option == 'string') data[option]()
})
}

$.fn.popover.Constructor = Popover

$.fn.popover.defaults = $.extend({}, $.fn.tooltip.defaults, {
  placement: 'right'
  , trigger: 'click'
  , content: ""
  , template: '<div class="popover"><div class="arrow"></div><div class="popover-inner"><h3 class="popover-
title"></h3><div class="popover-content"></div></div>'
})

/* POPOVER NO CONFLICT
* ===== */

$.fn.popover.noConflict = function () {
  $.fn.popover = old
  return this
}

})(window.jQuery);/* =====
* bootstrap-scrollspy.js v2.2.2
* http://twitter.github.com/bootstrap/javascript.html#scrollspy
* =====
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* limitations under the License.
* ===== */

```

```

!function ($) {

"use strict"; // jshint ;_;

/* SCROLLSPY CLASS DEFINITION
 * ===== */

function ScrollSpy(element, options) {
  var process = $.proxy(this.process, this)
    , $element = $(element).is('body') ? $(window) : $(element)
    , href
  this.options = $.extend({}, $.fn.scrollspy.defaults, options)
  this.$scrollElement = $element.on('scroll.scroll-spy.data-api', process)
  this.selector = (this.options.target
    || ((href = $(element).attr('href')) && href.replace(/.*(?=#[^\s]+$)/, "")) //strip for ie7
    || "") + ' .nav li > a'
  this.$body = $('body')
  this.refresh()
  this.process()
}

ScrollSpy.prototype = {

  constructor: ScrollSpy

  , refresh: function () {
    var self = this
      , $targets

    this.offsets = $()
    this.targets = $()

    $targets = this.$body
      .find(this.selector)
      .map(function () {
        var $el = $(this)
          , href = $el.data('target') || $el.attr('href')
          , $href = /^#\w/.test(href) && $(href)
        return ( $href
          && $href.length
          && [[ $href.position().top + self.$scrollElement.scrollTop(), href ]] ) || null
      })
      .sort(function (a, b) { return a[0] - b[0] })
      .each(function () {
        self.offsets.push(this[0])
        self.targets.push(this[1])
      })
  }
}

```

```

}

, process: function () {
  var scrollTop = this.$scrollElement.scrollTop() + this.options.offset
  , scrollHeight = this.$scrollElement[0].scrollHeight || this.$body[0].scrollHeight
  , maxScroll = scrollHeight - this.$scrollElement.height()
  , offsets = this.offsets
  , targets = this.targets
  , activeTarget = this.activeTarget
  , i

  if (scrollTop >= maxScroll) {
    return activeTarget != (i = targets.last()[0])
    && this.activate ( i )
  }

  for (i = offsets.length; i--;) {
    activeTarget != targets[i]
    && scrollTop >= offsets[i]
    && (!offsets[i + 1] || scrollTop <= offsets[i + 1])
    && this.activate( targets[i] )
  }
}

, activate: function (target) {
  var active
  , selector

  this.activeTarget = target

  $(this.selector)
  .parent('.active')
  .removeClass('active')

  selector = this.selector
  + '[data-target="' + target + '",]'
  + this.selector + '[href="' + target + '"]'

  active = $(selector)
  .parent('li')
  .addClass('active')

  if (active.parent('.dropdown-menu').length) {
    active = active.closest('li.dropdown').addClass('active')
  }

  active.trigger('activate')
}

```

```

}

/* SCROLLSPY PLUGIN DEFINITION
* ===== */

var old = $.fn.scrollspy

$.fn.scrollspy = function (option) {
  return this.each(function () {
    var $this = $(this)
      , data = $this.data('scrollspy')
      , options = typeof option == 'object' && option
    if (!data) $this.data('scrollspy', (data = new ScrollSpy(this, options)))
    if (typeof option == 'string') data[option]()
  })
}

$.fn.scrollspy.Constructor = ScrollSpy

$.fn.scrollspy.defaults = {
  offset: 10
}

/* SCROLLSPY NO CONFLICT
* ===== */

$.fn.scrollspy.noConflict = function () {
  $.fn.scrollspy = old
  return this
}

/* SCROLLSPY DATA-API
* ===== */

$(window).on('load', function () {
  $('[data-spy="scroll"]').each(function () {
    var $spy = $(this)
    $spy.scrollspy($spy.data())
  })
})

})(window.jQuery);/* =====
* bootstrap-tab.js v2.2.2
* http://twitter.github.com/bootstrap/javascript.html#tabs

```

```

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* ===== */

```

```

!function ($) {

"use strict"; // jshint ;_

/* TAB CLASS DEFINITION
 * ===== */

var Tab = function (element) {
  this.element = $(element)
}

Tab.prototype = {

  constructor: Tab

, show: function () {
  var $this = this.element
    , $ul = $this.closest('ul:not(.dropdown-menu)')
    , selector = $this.attr('data-target')
    , previous
    , $target
    , e

  if (!selector) {
    selector = $this.attr('href')
    selector = selector && selector.replace(/.*(?=#[^\s]*$)/, '') //strip for ie7
  }

  if ( $this.parent('li').hasClass('active') ) return

```

```

previous = $ul.find('.active:last a')[0]

e = $.Event('show', {
  relatedTarget: previous
})

$this.trigger(e)

if (e.isDefaultPrevented()) return

$target = $(selector)

this.activate($this.parent('li'), $ul)
this.activate($target, $target.parent(), function () {
  $this.trigger({
    type: 'shown'
    , relatedTarget: previous
  })
})
}

, activate: function ( element, container, callback) {
  var $active = container.find('> .active')
  , transition = callback
  && $.support.transition
  && $active.hasClass('fade')

  function next() {
    $active
      .removeClass('active')
      .find('> .dropdown-menu > .active')
      .removeClass('active')

    element.addClass('active')

    if (transition) {
      element[0].offsetWidth // reflow for transition
      element.addClass('in')
    } else {
      element.removeClass('fade')
    }
  }

  if ( element.parent('.dropdown-menu') ) {
    element.closest('li.dropdown').addClass('active')
  }

  callback && callback()
}

```

```

transition ?
  $active.one($.support.transition.end, next) :
  next()

  $active.removeClass('in')
}
}

/* TAB PLUGIN DEFINITION
* ===== */

var old = $.fn.tab

$.fn.tab = function ( option ) {
  return this.each(function () {
    var $this = $(this)
      , data = $this.data('tab')
    if (!data) $this.data('tab', (data = new Tab(this)))
    if (typeof option == 'string') data[option]()
  })
}

$.fn.tab.Constructor = Tab

/* TAB NO CONFLICT
* ===== */

$.fn.tab.noConflict = function () {
  $.fn.tab = old
  return this
}

/* TAB DATA-API
* ===== */

$(document).on('click.tab.data-api', '[data-toggle="tab"], [data-toggle="pill"]', function (e) {
  e.preventDefault()
  $(this).tab('show')
})

}(window.jQuery);/* =====
* bootstrap-typeahead.js v2.2.2
* http://twitter.github.com/bootstrap/javascript.html#typeahead
* =====

```

```

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* ===== */

```

```

!function($){

"use strict"; // jshint ;_

/* TYPEAHEAD PUBLIC CLASS DEFINITION
 * ===== */

var Typeahead = function (element, options) {
  this.$element = $(element)
  this.options = $.extend({}, $.fn.typeahead.defaults, options)
  this.matcher = this.options.matcher || this.matcher
  this.sorter = this.options.sorter || this.sorter
  this.highlighter = this.options.highlighter || this.highlighter
  this.updater = this.options.updater || this.updater
  this.source = this.options.source
  this.$menu = $(this.options.menu)
  this.shown = false
  this.listen()
}

Typeahead.prototype = {

  constructor: Typeahead

  , select: function () {
    var val = this.$menu.find('.active').attr('data-value')
    this.$element
      .val(this.updater(val))
      .change()
    return this.hide()
  }
}

```

```

, updater: function (item) {
    return item
}

, show: function () {
    var pos = $.extend({}, this.$element.position(), {
        height: this.$element[0].offsetHeight
    })

    this.$menu
        .insertAfter(this.$element)
        .css({
            top: pos.top + pos.height
            , left: pos.left
        })
        .show()

    this.shown = true
    return this
}

, hide: function () {
    this.$menu.hide()
    this.shown = false
    return this
}

, lookup: function (event) {
    var items

    this.query = this.$element.val()

    if (!this.query || this.query.length < this.options.minLength) {
        return this.shown ? this.hide() : this
    }

    items = $.isFunction(this.source) ? this.source(this.query, $.proxy(this.process, this)) : this.source

    return items ? this.process(items) : this
}

, process: function (items) {
    var that = this

    items = $.grep(items, function (item) {
        return that.matcher(item)
    })
}

```

```

items = this.sorter(items)

if (!items.length) {
  return this.shown ? this.hide() : this
}

return this.render(items.slice(0, this.options.items)).show()
}

, matcher: function (item) {
  return ~item.toLowerCase().indexOf(this.query.toLowerCase())
}

, sorter: function (items) {
  var beginswith = []
    , caseSensitive = []
    , caseInsensitive = []
    , item

  while (item = items.shift()) {
    if (!item.toLowerCase().indexOf(this.query.toLowerCase())) beginswith.push(item)
    else if (~item.indexOf(this.query)) caseSensitive.push(item)
    else caseInsensitive.push(item)
  }

  return beginswith.concat(caseSensitive, caseInsensitive)
}

, highlighter: function (item) {
  var query = this.query.replace(/[^\[]{}()*+?.,\\^$|#\s]/g, '\\$&')
  return item.replace(new RegExp('(' + query + ')', 'ig'), function ($1, match) {
    return '<strong>' + match + '</strong>'
  })
}

, render: function (items) {
  var that = this

  items = $(items).map(function (i, item) {
    i = $(that.options.item).attr('data-value', item)
    i.find('a').html(that.highlighter(item))
    return i[0]
  })

  items.first().addClass('active')
  this.$menu.html(items)
  return this
}

```

```

}

, next: function (event) {
  var active = this.$menu.find('.active').removeClass('active')
    , next = active.next()

  if (!next.length) {
    next = $(this.$menu.find('li')[0])
  }

  next.addClass('active')
}

, prev: function (event) {
  var active = this.$menu.find('.active').removeClass('active')
    , prev = active.prev()

  if (!prev.length) {
    prev = this.$menu.find('li').last()
  }

  prev.addClass('active')
}

, listen: function () {
  this.$element
    .on('blur', $.proxy(this.blur, this))
    .on('keypress', $.proxy(this.keypress, this))
    .on('keyup', $.proxy(this.keyup, this))

  if (this.eventSupported('keydown')) {
    this.$element.on('keydown', $.proxy(this.keydown, this))
  }

  this.$menu
    .on('click', $.proxy(this.click, this))
    .on('mouseenter', 'li', $.proxy(this.mouseenter, this))
}

, eventSupported: function(eventName) {
  var isSupported = eventName in this.$element
  if (!isSupported) {
    this.$element.setAttribute(eventName, 'return;')
    isSupported = typeof this.$element[eventName] === 'function'
  }
  return isSupported
}

```

```

, move: function (e) {
  if (!this.shown) return

  switch(e.keyCode) {
    case 9: // tab
    case 13: // enter
    case 27: // escape
      e.preventDefault()
      break

    case 38: // up arrow
      e.preventDefault()
      this.prev()
      break

    case 40: // down arrow
      e.preventDefault()
      this.next()
      break
  }

  e.stopPropagation()
}

, keydown: function (e) {
  this.suppressKeyPressRepeat = ~$.inArray(e.keyCode, [40,38,9,13,27])
  this.move(e)
}

, keypress: function (e) {
  if (this.suppressKeyPressRepeat) return
  this.move(e)
}

, keyup: function (e) {
  switch(e.keyCode) {
    case 40: // down arrow
    case 38: // up arrow
    case 16: // shift
    case 17: // ctrl
    case 18: // alt
      break

    case 9: // tab
    case 13: // enter
      if (!this.shown) return
      this.select()
      break
  }
}

```

```

    case 27: // escape
      if (!this.shown) return
      this.hide()
      break

    default:
      this.lookup()
  }

  e.stopPropagation()
  e.preventDefault()
}

, blur: function (e) {
  var that = this
  setTimeout(function () { that.hide() }, 150)
}

, click: function (e) {
  e.stopPropagation()
  e.preventDefault()
  this.select()
}

, mouseenter: function (e) {
  this.$menu.find('.active').removeClass('active')
  $(e.currentTarget).addClass('active')
}

}

/* TYPEAHEAD PLUGIN DEFINITION
* ===== */

var old = $.fn.typeahead

$.fn.typeahead = function (option) {
  return this.each(function () {
    var $this = $(this)
    , data = $this.data('typeahead')
    , options = typeof option == 'object' && option
    if (!data) $this.data('typeahead', (data = new Typeahead(this, options)))
    if (typeof option == 'string') data[option]()
  })
}

```

```
$.fn.typeahead.defaults = {
  source: []
, items: 8
, menu: '<ul class="typeahead dropdown-menu"></ul>'
, item: '<li><a href="#"></a></li>'
, minLength: 1
}
```

```
$.fn.typeahead.Constructor = Typeahead
```

```
/* TYPEAHEAD NO CONFLICT
 * ===== */
```

```
$.fn.typeahead.noConflict = function () {
  $.fn.typeahead = old
  return this
}
```

```
/* TYPEAHEAD DATA-API
 * ===== */
```

```
$(document).on('focus.typeahead.data-api', '[data-provide="typeahead"]', function (e) {
  var $this = $(this)
  if ($this.data('typeahead')) return
  e.preventDefault()
  $this.typeahead($this.data())
})
```

```
}(window.jQuery);
```

```
/* =====
```

```
* bootstrap-affix.js v2.2.2
```

```
* http://twitter.github.com/bootstrap/javascript.html#affix
```

```
* =====
```

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```

* ===== */

!function ($) {

"use strict"; // jshint ;_;

/* AFFIX CLASS DEFINITION
* ===== */

var Affix = function (element, options) {
  this.options = $.extend({}, $.fn.affix.defaults, options)
  this.$window = $(window)
    .on('scroll.affix.data-api', $.proxy(this.checkPosition, this))
    .on('click.affix.data-api', $.proxy(function () { setTimeout($.proxy(this.checkPosition, this), 1) }, this))
  this.$element = $(element)
  this.checkPosition()
}

Affix.prototype.checkPosition = function () {
  if (!this.$element.is(':visible')) return

  var scrollHeight = $(document).height()
    , scrollTop = this.$window.scrollTop()
    , position = this.$element.offset()
    , offset = this.options.offset
    , offsetBottom = offset.bottom
    , offsetTop = offset.top
    , reset = 'affix affix-top affix-bottom'
    , affix

  if (typeof offset != 'object') offsetBottom = offsetTop = offset
  if (typeof offsetTop == 'function') offsetTop = offset.top()
  if (typeof offsetBottom == 'function') offsetBottom = offset.bottom()

  affix = this.unpin != null && (scrollTop + this.unpin <= position.top) ?
    false : offsetBottom != null && (position.top + this.$element.height() >= scrollHeight - offsetBottom) ?
    'bottom' : offsetTop != null && scrollTop <= offsetTop ?
    'top' : false

  if (this.affixed === affix) return

  this.affixed = affix
  this.unpin = affix == 'bottom' ? position.top - scrollTop : null

  this.$element.removeClass(reset).addClass('affix' + (affix ? '-' + affix : ''))
}

```

```

/* AFFIX PLUGIN DEFINITION
* ===== */

var old = $.fn.affix

$.fn.affix = function (option) {
  return this.each(function () {
    var $this = $(this)
      , data = $this.data('affix')
      , options = typeof option == 'object' && option
    if (!data) $this.data('affix', (data = new Affix(this, options)))
    if (typeof option == 'string') data[option]()
  })
}

$.fn.affix.Constructor = Affix

$.fn.affix.defaults = {
  offset: 0
}

/* AFFIX NO CONFLICT
* ===== */

$.fn.affix.noConflict = function () {
  $.fn.affix = old
  return this
}

/* AFFIX DATA-API
* ===== */

$(window).on('load', function () {
  $('[data-spy="affix"]').each(function () {
    var $spy = $(this)
      , data = $spy.data()

    data.offset = data.offset || {}

    data.offsetBottom && (data.offset.bottom = data.offsetBottom)
    data.offsetTop && (data.offset.top = data.offsetTop)

    $spy.affix(data)
  })
})

```

```
})
```

```
}(window.jQuery);
```

```
/* =====
```

```
* bootstrap-transition.js v2.2.2
```

```
* http://twitter.github.com/bootstrap/javascript.html#transitions
```

```
/* =====
```

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```
* ===== */
```

```
!function ($) {
```

```
"use strict"; // jshint ;_;
```

```
/* CSS TRANSITION SUPPORT (http://www.modernizr.com/)
```

```
* ===== */
```

```
$(function () {
```

```
  $.support.transition = (function () {
```

```
    var transitionEnd = (function () {
```

```
      var el = document.createElement('bootstrap')
```

```
      , transEndEventNames = {
```

```
        'WebkitTransition' : 'webkitTransitionEnd'
```

```
        , 'MozTransition'   : 'transitionend'
```

```
        , 'OTransition'     : 'oTransitionEnd otransitionend'
```

```
        , 'transition'      : 'transitionend'
```

```
      }
```

```
      , name
```

```
      for (name in transEndEventNames){
```

```

        if (el.style[name] !== undefined) {
            return transEndEventNames[name]
        }
    }

    })

    return transitionEnd && {
        end: transitionEnd
    }

    })

    })

})(window.jQuery);/* =====
* bootstrap-alert.js v2.2.2
* http://twitter.github.com/bootstrap/javascript.html#alerts
* =====
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* ===== */

!function ($) {

    "use strict"; // jshint ;_

    /* ALERT CLASS DEFINITION
    * ===== */

    var dismiss = '[data-dismiss="alert"]'
    , Alert = function (el) {
        $(el).on('click', dismiss, this.close)
    }

```

```

Alert.prototype.close = function (e) {
  var $this = $(this)
    , selector = $this.attr('data-target')
    , $parent

  if (!selector) {
    selector = $this.attr('href')
    selector = selector && selector.replace(/.*(?:#[^\s]*$)/, "") //strip for ie7
  }

  $parent = $(selector)

  e && e.preventDefault()

  $parent.length || ($parent = $this.hasClass('alert') ? $this : $this.parent())

  $parent.trigger(e = $.Event('close'))

  if (e.isDefaultPrevented()) return

  $parent.removeClass('in')

  function removeElement() {
    $parent
      .trigger('closed')
      .remove()
  }

  $.support.transition && $parent.hasClass('fade') ?
    $parent.on($.support.transition.end, removeElement) :
    removeElement()
}

/* ALERT PLUGIN DEFINITION
* ===== */

var old = $.fn.alert

$.fn.alert = function (option) {
  return this.each(function () {
    var $this = $(this)
      , data = $this.data('alert')
    if (!data) $this.data('alert', (data = new Alert(this)))
    if (typeof option == 'string') data[option].call($this)
  })
}

```

```
$.fn.alert.Constructor = Alert
```

```
/* ALERT NO CONFLICT  
* ===== */
```

```
$.fn.alert.noConflict = function () {  
  $.fn.alert = old  
  return this  
}
```

```
/* ALERT DATA-API  
* ===== */
```

```
$(document).on('click.alert.data-api', dismiss, Alert.prototype.close)
```

```
}(window.jQuery);/* =====  
* bootstrap-button.js v2.2.2  
* http://twitter.github.com/bootstrap/javascript.html#buttons  
* =====  
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* ===== */
```

```
!function ($) {
```

```
"use strict"; // jshint ;_;
```

```
/* BUTTON PUBLIC CLASS DEFINITION  
* ===== */
```

```
var Button = function (element, options) {  
  this.$element = $(element)  
  this.options = $.extend({}, $.fn.button.defaults, options)
```

```

}

Button.prototype.setState = function (state) {
  var d = 'disabled'
  , $el = this.$element
  , data = $el.data()
  , val = $el.is('input') ? 'val' : 'html'

  state = state + 'Text'
  data.resetText || $el.data('resetText', $el[val]())

  $el[val](data[state] || this.options[state])

  // push to event loop to allow forms to submit
  setTimeout(function () {
    state == 'loadingText' ?
      $el.addClass(d).attr(d, d) :
      $el.removeClass(d).removeAttr(d)
  }, 0)
}

Button.prototype.toggle = function () {
  var $parent = this.$element.closest('[data-toggle="buttons-radio"]')

  $parent && $parent
    .find('.active')
    .removeClass('active')

  this.$element.toggleClass('active')
}

/* BUTTON PLUGIN DEFINITION
 * ===== */

var old = $.fn.button

$.fn.button = function (option) {
  return this.each(function () {
    var $this = $(this)
    , data = $this.data('button')
    , options = typeof option == 'object' && option
    if (!data) $this.data('button', (data = new Button(this, options)))
    if (option == 'toggle') data.toggle()
    else if (option) data.setState(option)
  })
}

```

```

$.fn.button.defaults = {
  loadingText: 'loading...'
}

$.fn.button.Constructor = Button

/* BUTTON NO CONFLICT
 * ===== */

$.fn.button.noConflict = function () {
  $.fn.button = old
  return this
}

/* BUTTON DATA-API
 * ===== */

$(document).on('click.button.data-api', '[data-toggle^=button]', function (e) {
  var $btn = $(e.target)
  if (!$btn.hasClass('btn')) $btn = $btn.closest('.btn')
  $btn.button('toggle')
})

})(window.jQuery);/* =====
 * bootstrap-carousel.js v2.2.2
 * http://twitter.github.com/bootstrap/javascript.html#carousel
 * =====
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 * limitations under the License.
 * ===== */

!function ($) {

  "use strict"; // jshint ;_

```

```

/* CAROUSEL CLASS DEFINITION
* ===== */

var Carousel = function (element, options) {
  this.$element = $(element)
  this.options = options
  this.options.pause == 'hover' && this.$element
    .on('mouseenter', $.proxy(this.pause, this))
    .on('mouseleave', $.proxy(this.cycle, this))
}

Carousel.prototype = {

  cycle: function (e) {
    if (!e) this.paused = false
    this.options.interval
      && !this.paused
      && (this.interval = setInterval($.proxy(this.next, this), this.options.interval))
    return this
  }

  , to: function (pos) {
    var $active = this.$element.find('.item.active')
      , children = $active.parent().children()
      , activePos = children.index($active)
      , that = this

    if (pos > (children.length - 1) || pos < 0) return

    if (this.sliding) {
      return this.$element.one('slid', function () {
        that.to(pos)
      })
    }

    if (activePos == pos) {
      return this.pause().cycle()
    }

    return this.slide(pos > activePos ? 'next' : 'prev', $(children[pos]))
  }

  , pause: function (e) {
    if (!e) this.paused = true
    if (this.$element.find('.next, .prev').length && $.support.transition.end) {
      this.$element.trigger($.support.transition.end)
    }
  }
}

```

```

    this.cycle()
  }
  clearInterval(this.interval)
  this.interval = null
  return this
}

, next: function () {
  if (this.sliding) return
  return this.slide('next')
}

, prev: function () {
  if (this.sliding) return
  return this.slide('prev')
}

, slide: function (type, next) {
  var $active = this.$element.find('.item.active')
  , $next = next || $active[type]()
  , isCycling = this.interval
  , direction = type == 'next' ? 'left' : 'right'
  , fallback = type == 'next' ? 'first' : 'last'
  , that = this
  , e

  this.sliding = true

  isCycling && this.pause()

  $next = $next.length ? $next : this.$element.find('.item')[fallback]()

  e = $.Event('slide', {
    relatedTarget: $next[0]
  })

  if ($next.hasClass('active')) return

  if ($.support.transition && this.$element.hasClass('slide')) {
    this.$element.trigger(e)
    if (e.isDefaultPrevented()) return
    $next.addClass(type)
    $next[0].offsetWidth // force reflow
    $active.addClass(direction)
    $next.addClass(direction)
    this.$element.one($.support.transition.end, function () {
      $next.removeClass([type, direction].join(' ')).addClass('active')
      $active.removeClass(['active', direction].join(' '))
    })
  }
}

```

```

        that.sliding = false
        setTimeout(function () { that.$element.trigger('slid') }, 0)
    })
} else {
    this.$element.trigger(e)
    if (e.isDefaultPrevented()) return
    $active.removeClass('active')
    $next.addClass('active')
    this.sliding = false
    this.$element.trigger('slid')
}

isCycling && this.cycle()

return this
}

}

/* CAROUSEL PLUGIN DEFINITION
 * ===== */

var old = $.fn.carousel

$.fn.carousel = function (option) {
    return this.each(function () {
        var $this = $(this)
            , data = $this.data('carousel')
            , options = $.extend({}, $.fn.carousel.defaults, typeof option == 'object' && option)
            , action = typeof option == 'string' ? option : options.slide
        if (!data) $this.data('carousel', (data = new Carousel(this, options)))
        if (typeof option == 'number') data.to(option)
        else if (action) data[action]()
        else if (options.interval) data.cycle()
    })
}

$.fn.carousel.defaults = {
    interval: 5000
    , pause: 'hover'
}

$.fn.carousel.Constructor = Carousel

/* CAROUSEL NO CONFLICT
 * ===== */

```

```

$.fn.carousel.noConflict = function () {
  $.fn.carousel = old
  return this
}

/* CAROUSEL DATA-API
 * ===== */

$(document).on('click.carousel.data-api', '[data-slide]', function (e) {
  var $this = $(this), href
  , $target = $($this.attr('data-target') || (href = $this.attr('href')) && href.replace(/.*(?=#[^\s]+$)/, "")) //strip for ie7
  , options = $.extend({}, $target.data(), $this.data())
  $target.carousel(options)
  e.preventDefault()
})

}(window.jQuery);/* =====
 * bootstrap-collapse.js v2.2.2
 * http://twitter.github.com/bootstrap/javascript.html#collapse
 * =====
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 * ===== */

!function ($) {

  "use strict"; // jshint ;_

  /* COLLAPSE PUBLIC CLASS DEFINITION
   * ===== */

  var Collapse = function (element, options) {
    this.$element = $(element)
    this.options = $.extend({}, $.fn.collapse.defaults, options)

```

```

if (this.options.parent) {
  this.$parent = $(this.options.parent)
}

this.options.toggle && this.toggle()
}

Collapse.prototype = {

  constructor: Collapse

, dimension: function () {
  var hasWidth = this.$element.hasClass('width')
  return hasWidth ? 'width' : 'height'
}

, show: function () {
  var dimension
    , scroll
    , actives
    , hasData

  if (this.transitioning) return

  dimension = this.dimension()
  scroll = $.camelCase(['scroll', dimension].join('-'))
  actives = this.$parent && this.$parent.find('> .accordion-group > .in')

  if (actives && actives.length) {
    hasData = actives.data('collapse')
    if (hasData && hasData.transitioning) return
    actives.collapse('hide')
    hasData || actives.data('collapse', null)
  }

  this.$element[dimension](0)
  this.transition('addClass', $.Event('show'), 'shown')
  $.support.transition && this.$element[dimension](this.$element[0][scroll])
}

, hide: function () {
  var dimension

  if (this.transitioning) return
  dimension = this.dimension()
  this.reset(this.$element[dimension]())
  this.transition('removeClass', $.Event('hide'), 'hidden')
  this.$element[dimension](0)
}

```

```

    }

    , reset: function (size) {
        var dimension = this.dimension()

        this.$element
            .removeClass('collapse')
            [dimension](size || 'auto')
            [0].offsetWidth

        this.$element[size !== null ? 'addClass' : 'removeClass']('collapse')

        return this
    }

    , transition: function (method, startEvent, completeEvent) {
        var that = this
            , complete = function () {
                if (startEvent.type === 'show') that.reset()
                that.transitioning = 0
                that.$element.trigger(completeEvent)
            }

        this.$element.trigger(startEvent)

        if (startEvent.isDefaultPrevented()) return

        this.transitioning = 1

        this.$element[method]('in')

        $.support.transition && this.$element.hasClass('collapse') ?
            this.$element.one($.support.transition.end, complete) :
            complete()
    }

    , toggle: function () {
        this[this.$element.hasClass('in') ? 'hide' : 'show']()
    }
}

/* COLLAPSE PLUGIN DEFINITION
* ===== */

var old = $.fn.collapse

```

```

$.fn.collapse = function (option) {
  return this.each(function () {
    var $this = $(this)
      , data = $this.data('collapse')
      , options = typeof option == 'object' && option
    if (!data) $this.data('collapse', (data = new Collapse(this, options)))
    if (typeof option == 'string') data[option]()
  })
}

$.fn.collapse.defaults = {
  toggle: true
}

$.fn.collapse.Constructor = Collapse

/* COLLAPSE NO CONFLICT
 * ===== */

$.fn.collapse.noConflict = function () {
  $.fn.collapse = old
  return this
}

/* COLLAPSE DATA-API
 * ===== */

$(document).on('click.collapse.data-api', '[data-toggle=collapse]', function (e) {
  var $this = $(this), href
    , target = $this.attr('data-target')
    || e.preventDefault()
    || (href = $this.attr('href')) && href.replace(/.*(?=#[\s]+$)/, '') //strip for ie7
    , option = $(target).data('collapse') ? 'toggle' : $this.data()
  $this[$(target).hasClass('in') ? 'addClass' : 'removeClass']('collapsed')
  $(target).collapse(option)
})

}(window.jQuery);/* =====
* bootstrap-dropdown.js v2.2.2
* http://twitter.github.com/bootstrap/javascript.html#dropdowns
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```

```

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* ===== */

```

```

!function ($) {

"use strict"; // jshint ;_;

/* DROPDOWN CLASS DEFINITION
* ===== */

var toggle = '[data-toggle=dropdown]'
, Dropdown = function (element) {
    var $el = $(element).on('click.dropdown.data-api', this.toggle)
    $('html').on('click.dropdown.data-api', function () {
        $el.parent().removeClass('open')
    })
}

Dropdown.prototype = {

constructor: Dropdown

, toggle: function (e) {
    var $this = $(this)
    , $parent
    , isActive

    if ($this.is('.disabled, :disabled')) return

    $parent = getParent($this)

    isActive = $parent.hasClass('open')

    clearMenus()

    if (!isActive) {
        $parent.toggleClass('open')
    }
}

```

```

    $this.focus()

    return false
}

, keydown: function (e) {
    var $this
        , $items
        , $active
        , $parent
        , isActive
        , index

    if (!(38|40|27)/.test(e.keyCode)) return

    $this = $(this)

    e.preventDefault()
    e.stopPropagation()

    if ($this.is('.disabled, :disabled')) return

    $parent = getParent($this)

    isActive = $parent.hasClass('open')

    if (!isActive || (isActive && e.keyCode == 27)) return $this.click()

    $items = $('[role=menu] li:not(.divider):visible a', $parent)

    if (!$items.length) return

    index = $items.index($items.filter(':focus'))

    if (e.keyCode == 38 && index > 0) index--           // up
    if (e.keyCode == 40 && index < $items.length - 1) index++           // down
    if (!~index) index = 0

    $items
        .eq(index)
        .focus()
}

}

function clearMenus() {
    $(toggle).each(function () {
        getParent($(this)).removeClass('open')
    })
}

```

```

    })
  }

function getParent($this) {
  var selector = $this.attr('data-target')
    , $parent

  if (!selector) {
    selector = $this.attr('href')
    selector = selector && /#/.test(selector) && selector.replace(/.*(?=#[^\s]*$)/, "") //strip for ie7
  }

  $parent = $(selector)
  $parent.length || ($parent = $this.parent())

  return $parent
}

/* DROPDOWN PLUGIN DEFINITION
 * ===== */

var old = $.fn.dropdown

$.fn.dropdown = function (option) {
  return this.each(function () {
    var $this = $(this)
      , data = $this.data('dropdown')
    if (!data) $this.data('dropdown', (data = new Dropdown(this)))
    if (typeof option == 'string') data[option].call($this)
  })
}

$.fn.dropdown.Constructor = Dropdown

/* DROPDOWN NO CONFLICT
 * ===== */

$.fn.dropdown.noConflict = function () {
  $.fn.dropdown = old
  return this
}

/* APPLY TO STANDARD DROPDOWN ELEMENTS
 * ===== */

```

```

$(document)
  .on('click.dropdown.data-api touchstart.dropdown.data-api', clearMenus)
  .on('click.dropdown touchstart.dropdown.data-api', '.dropdown form', function (e) { e.stopPropagation() })
  .on('touchstart.dropdown.data-api', '.dropdown-menu', function (e) { e.stopPropagation() })
  .on('click.dropdown.data-api touchstart.dropdown.data-api', toggle, Dropdown.prototype.toggle)
  .on('keydown.dropdown.data-api touchstart.dropdown.data-api', toggle + ' ', [role=menu]',
Dropdown.prototype.keydown)

```

```

}(window.jQuery);/* =====
* bootstrap-modal.js v2.2.2
* http://twitter.github.com/bootstrap/javascript.html#modals
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* ===== */

```

```

!function ($) {

  "use strict"; // jshint ;_

  /* MODAL CLASS DEFINITION
  * ===== */

  var Modal = function (element, options) {
    this.options = options
    this.$element = $(element)
    .delegate('[data-dismiss="modal"]', 'click.dismiss.modal', $.proxy(this.hide, this))
    this.options.remote && this.$element.find('.modal-body').load(this.options.remote)
  }

  Modal.prototype = {

    constructor: Modal

    , toggle: function () {

```

```

    return this[!this.isShown ? 'show' : 'hide']()
  }

, show: function () {
  var that = this
  , e = $.Event('show')

  this.$element.trigger(e)

  if (this.isShown || e.isDefaultPrevented()) return

  this.isShown = true

  this.escape()

  this.backdrop(function () {
    var transition = $.support.transition && that.$element.hasClass('fade')

    if (!that.$element.parent().length) {
      that.$element.appendTo(document.body) //don't move modals dom position
    }

    that.$element
      .show()

    if (transition) {
      that.$element[0].offsetWidth // force reflow
    }

    that.$element
      .addClass('in')
      .attr('aria-hidden', false)

    that.enforceFocus()

    transition ?
      that.$element.one($.support.transition.end, function () { that.$element.focus().trigger('shown') }) :
      that.$element.focus().trigger('shown')

  })
}

, hide: function (e) {
  e && e.preventDefault()

  var that = this

  e = $.Event('hide')

```

```

this.$element.trigger(e)

if (!this.isShown || e.isDefaultPrevented()) return

this.isShown = false

this.escape()

$(document).off('focusin.modal')

this.$element
  .removeClass('in')
  .attr('aria-hidden', true)

$.support.transition && this.$element.hasClass('fade') ?
  this.hideWithTransition() :
  this.hideModal()
}

, enforceFocus: function () {
  var that = this
  $(document).on('focusin.modal', function (e) {
    if (that.$element[0] !== e.target && !that.$element.has(e.target).length) {
      that.$element.focus()
    }
  })
}

, escape: function () {
  var that = this
  if (this.isShown && this.options.keyboard) {
    this.$element.on('keyup.dismiss.modal', function ( e ) {
      e.which == 27 && that.hide()
    })
  } else if (!this.isShown) {
    this.$element.off('keyup.dismiss.modal')
  }
}

, hideWithTransition: function () {
  var that = this
  , timeout = setTimeout(function () {
    that.$element.off($.support.transition.end)
    that.hideModal()
  }, 500)

  this.$element.one($.support.transition.end, function () {

```

```

        clearTimeout(timeout)
        that.hideModal()
    })
}

, hideModal: function (that) {
    this.$element
        .hide()
        .trigger('hidden')

    this.backdrop()
}

, removeBackdrop: function () {
    this.$backdrop.remove()
    this.$backdrop = null
}

, backdrop: function (callback) {
    var that = this
        , animate = this.$element.hasClass('fade') ? 'fade' : ''

    if (this.isShown && this.options.backdrop) {
        var doAnimate = $.support.transition && animate

        this.$backdrop = $('<div class="modal-backdrop ' + animate + '" />')
            .appendTo(document.body)

        this.$backdrop.click(
            this.options.backdrop == 'static' ?
                $.proxy(this.$element[0].focus, this.$element[0])
            : $.proxy(this.hide, this)
        )

        if (doAnimate) this.$backdrop[0].offsetWidth // force reflow

        this.$backdrop.addClass('in')

        doAnimate ?
            this.$backdrop.one($.support.transition.end, callback) :
            callback()

    } else if (!this.isShown && this.$backdrop) {
        this.$backdrop.removeClass('in')

        $.support.transition && this.$element.hasClass('fade')?
            this.$backdrop.one($.support.transition.end, $.proxy(this.removeBackdrop, this)) :
            this.removeBackdrop()
    }
}

```

```

    } else if (callback) {
        callback()
    }
}

/* MODAL PLUGIN DEFINITION
 * ===== */

var old = $.fn.modal

$.fn.modal = function (option) {
    return this.each(function () {
        var $this = $(this)
            , data = $this.data('modal')
            , options = $.extend({}, $.fn.modal.defaults, $this.data(), typeof option == 'object' && option)
            if (!data) $this.data('modal', (data = new Modal(this, options)))
            if (typeof option == 'string') data[option]()
            else if (options.show) data.show()
        })
    }

$.fn.modal.defaults = {
    backdrop: true
    , keyboard: true
    , show: true
}

$.fn.modal.Constructor = Modal

/* MODAL NO CONFLICT
 * ===== */

$.fn.modal.noConflict = function () {
    $.fn.modal = old
    return this
}

/* MODAL DATA-API
 * ===== */

$(document).on('click.modal.data-api', '[data-toggle="modal"]', function (e) {
    var $this = $(this)
        , href = $this.attr('href')

```

```

, $target = $($this.attr('data-target') || (href && href.replace(/.*(?:#\^[^s]+$)/, ''))) //strip for ie7
, option = $target.data('modal') ? 'toggle' : $.extend({ remote:!/#.test(href) && href }, $target.data(), $this.data())

e.preventDefault()

$target
  .modal(option)
  .one('hide', function () {
    $this.focus()
  })
})

}(window.jQuery);

/* =====
* bootstrap-tooltip.js v2.2.2
* http://twitter.github.com/bootstrap/javascript.html#tooltips
* Inspired by the original jQuery.tipsy by Jason Frame
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* ===== */

!function ($) {

  "use strict"; // jshint ;_

  /* TOOLTIP PUBLIC CLASS DEFINITION
  * ===== */

  var Tooltip = function (element, options) {
    this.init('tooltip', element, options)
  }

  Tooltip.prototype = {

```

```

constructor: Tooltip

, init: function (type, element, options) {
  var eventIn
    , eventOut

  this.type = type
  this.$element = $(element)
  this.options = this.getOptions(options)
  this.enabled = true

  if (this.options.trigger == 'click') {
    this.$element.on('click.' + this.type, this.options.selector, $.proxy(this.toggle, this))
  } else if (this.options.trigger != 'manual') {
    eventIn = this.options.trigger == 'hover' ? 'mouseenter' : 'focus'
    eventOut = this.options.trigger == 'hover' ? 'mouseleave' : 'blur'
    this.$element.on(eventIn + '.' + this.type, this.options.selector, $.proxy(this.enter, this))
    this.$element.on(eventOut + '.' + this.type, this.options.selector, $.proxy(this.leave, this))
  }

  this.options.selector ?
    (this._options = $.extend({}, this.options, { trigger: 'manual', selector: "" })) :
    this.fixTitle()
}

, getOptions: function (options) {
  options = $.extend({}, $.fn[this.type].defaults, options, this.$element.data())

  if (options.delay && typeof options.delay == 'number') {
    options.delay = {
      show: options.delay
      , hide: options.delay
    }
  }

  return options
}

, enter: function (e) {
  var self = $(e.currentTarget)[this.type](this._options).data(this.type)

  if (!self.options.delay || !self.options.delay.show) return self.show()

  clearTimeout(this.timeout)
  self.hoverState = 'in'
  this.timeout = setTimeout(function() {
    if (self.hoverState == 'in') self.show()
  }, self.options.delay.show)
}

```

```

}

, leave: function (e) {
  var self = $(e.currentTarget)[this.type](this._options).data(this.type)

  if (this.timeout) clearTimeout(this.timeout)
  if (!self.options.delay || !self.options.delay.hide) return self.hide()

  self.hoverState = 'out'
  this.timeout = setTimeout(function() {
    if (self.hoverState == 'out') self.hide()
  }, self.options.delay.hide)
}

, show: function () {
  var $tip
  , inside
  , pos
  , actualWidth
  , actualHeight
  , placement
  , tp

  if (this.hasContent() && this.enabled) {
    $tip = this.tip()
    this.setContent()

    if (this.options.animation) {
      $tip.addClass('fade')
    }

    placement = typeof this.options.placement == 'function' ?
      this.options.placement.call(this, $tip[0], this.$element[0]) :
      this.options.placement

    inside = /in/.test(placement)

    $tip
      .detach()
      .css({ top: 0, left: 0, display: 'block' })
      .insertAfter(this.$element)

    pos = this.getPosition(inside)

    actualWidth = $tip[0].offsetWidth
    actualHeight = $tip[0].offsetHeight

    switch (inside ? placement.split(' ')[1] : placement) {

```

```

    case 'bottom':
        tp = {top: pos.top + pos.height, left: pos.left + pos.width / 2 - actualWidth / 2}
        break
    case 'top':
        tp = {top: pos.top - actualHeight, left: pos.left + pos.width / 2 - actualWidth / 2}
        break
    case 'left':
        tp = {top: pos.top + pos.height / 2 - actualHeight / 2, left: pos.left - actualWidth}
        break
    case 'right':
        tp = {top: pos.top + pos.height / 2 - actualHeight / 2, left: pos.left + pos.width}
        break
    }

    $tip
        .offset(tp)
        .addClass(placement)
        .addClass('in')
    }
}

, setContent: function () {
    var $tip = this.tip()
        , title = this.getTitle()

    $tip.find('.tooltip-inner')[this.options.html ? 'html' : 'text'](title)
    $tip.removeClass('fade in top bottom left right')
}

, hide: function () {
    var that = this
        , $tip = this.tip()

    $tip.removeClass('in')

    function removeWithAnimation() {
        var timeout = setTimeout(function () {
            $tip.off($.support.transition.end).detach()
        }, 500)

        $tip.one($.support.transition.end, function () {
            clearTimeout(timeout)
            $tip.detach()
        })
    }

    $.support.transition && this.$tip.hasClass('fade') ?
        removeWithAnimation() :

```

```

    $tip.detach()

    return this
  }

  , fixTitle: function () {
    var $e = this.$element
    if ($e.attr('title') || typeof($e.attr('data-original-title')) != 'string') {
      $e.attr('data-original-title', $e.attr('title') || "").removeAttr('title')
    }
  }

  , hasContent: function () {
    return this.getTitle()
  }

  , getPosition: function (inside) {
    return $.extend({}, (inside ? {top: 0, left: 0} : this.$element.offset()), {
      width: this.$element[0].offsetWidth
      , height: this.$element[0].offsetHeight
    })
  }

  , getTitle: function () {
    var title
      , $e = this.$element
      , o = this.options

    title = $e.attr('data-original-title')
      || (typeof o.title == 'function' ? o.title.call($e[0]) : o.title)

    return title
  }

  , tip: function () {
    return this.$tip = this.$tip || $(this.options.template)
  }

  , validate: function () {
    if (!this.$element[0].parentNode) {
      this.hide()
      this.$element = null
      this.options = null
    }
  }

  , enable: function () {
    this.enabled = true
  }

```

```

    }

    , disable: function () {
        this.enabled = false
    }

    , toggleEnabled: function () {
        this.enabled = !this.enabled
    }

    , toggle: function (e) {
        var self = $(e.currentTarget)[this.type](this._options).data(this.type)
        self[self.tip().hasClass('in') ? 'hide' : 'show']()
    }

    , destroy: function () {
        this.hide().$element.off('.' + this.type).removeData(this.type)
    }

}

/* TOOLTIP PLUGIN DEFINITION
* ===== */

var old = $.fn.tooltip

$.fn.tooltip = function ( option ) {
    return this.each(function () {
        var $this = $(this)
            , data = $this.data('tooltip')
            , options = typeof option == 'object' && option
        if (!data) $this.data('tooltip', (data = new Tooltip(this, options)))
        if (typeof option == 'string') data[option]()
    })
}

$.fn.tooltip.Constructor = Tooltip

$.fn.tooltip.defaults = {
    animation: true
    , placement: 'top'
    , selector: false
    , template: '<div class="tooltip"><div class="tooltip-arrow"></div><div class="tooltip-inner"></div></div>'
    , trigger: 'hover'
    , title: ""
    , delay: 0
    , html: false
}

```

```

}

/* TOOLTIP NO CONFLICT
 * ===== */

$.fn.tooltip.noConflict = function () {
  $.fn.tooltip = old
  return this
}

}(window.jQuery);/* =====
 * bootstrap-popover.js v2.2.2
 * http://twitter.github.com/bootstrap/javascript.html#popovers
 * =====
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 * limitations under the License.
 * ===== */

!function ($) {

  "use strict"; // jshint ;_

  /* POPOVER PUBLIC CLASS DEFINITION
   * ===== */

  var Popover = function (element, options) {
    this.init('popover', element, options)
  }

  /* NOTE: POPOVER EXTENDS BOOTSTRAP-TOOLTIP.js
   * ===== */

  Popover.prototype = $.extend({}, $.fn.tooltip.Constructor.prototype, {

```

```

constructor: Popover

, setContent: function () {
    var $tip = this.tip()
    , title = this.getTitle()
    , content = this.getContent()

    $tip.find('.popover-title')[this.options.html ? 'html' : 'text'](title)
    $tip.find('.popover-content')[this.options.html ? 'html' : 'text'](content)

    $tip.removeClass('fade top bottom left right in')
}

, hasContent: function () {
    return this.getTitle() || this.getContent()
}

, getContent: function () {
    var content
    , $e = this.$element
    , o = this.options

    content = $e.attr('data-content')
    || (typeof o.content == 'function' ? o.content.call($e[0]) : o.content)

    return content
}

, tip: function () {
    if (!this.$tip) {
        this.$tip = $(this.options.template)
    }
    return this.$tip
}

, destroy: function () {
    this.hide().$element.off('.' + this.type).removeData(this.type)
}

})

/* POPOVER PLUGIN DEFINITION
* ===== */

var old = $.fn.popover

```

```

$.fn.popover = function (option) {
  return this.each(function () {
    var $this = $(this)
      , data = $this.data('popover')
      , options = typeof option == 'object' && option
    if (!data) $this.data('popover', (data = new Popover(this, options)))
    if (typeof option == 'string') data[option]()
  })
}

$.fn.popover.Constructor = Popover

$.fn.popover.defaults = $.extend({}, $.fn.tooltip.defaults, {
  placement: 'right'
, trigger: 'click'
, content: ""
, template: '<div class="popover"><div class="arrow"></div><div class="popover-inner"><h3 class="popover-
title"></h3><div class="popover-content"></div></div></div>'
})

/* POPOVER NO CONFLICT
* ===== */

$.fn.popover.noConflict = function () {
  $.fn.popover = old
  return this
}

}(window.jQuery);/* =====
* bootstrap-scrollspy.js v2.2.2
* http://twitter.github.com/bootstrap/javascript.html#scrollspy
* =====
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* ===== */

```

```

!function ($) {

"use strict"; // jshint ;_

/* SCROLLSPY CLASS DEFINITION
 * ===== */

function ScrollSpy(element, options) {
  var process = $.proxy(this.process, this)
    , $element = $(element).is('body') ? $(window) : $(element)
    , href
    this.options = $.extend({}, $.fn.scrollspy.defaults, options)
    this.$scrollElement = $element.on('scroll.scroll-spy.data-api', process)
    this.selector = (this.options.target
      || ((href = $(element).attr('href')) && href.replace(/.*(?=#[^\s]+$)/, "")) //strip for ie7
      || "") + ' .nav li > a'
    this.$body = $('body')
    this.refresh()
    this.process()
}

ScrollSpy.prototype = {

  constructor: ScrollSpy

  , refresh: function () {
    var self = this
      , $targets

    this.offsets = $()
    this.targets = $()

    $targets = this.$body
      .find(this.selector)
      .map(function () {
        var $el = $(this)
          , href = $el.data('target') || $el.attr('href')
          , $href = /^#\w/.test(href) && $(href)
        return ( $href
          && $href.length
          && [ $href.position().top + self.$scrollElement.scrollTop(), href ] ) || null
      })
      .sort(function (a, b) { return a[0] - b[0] })
      .each(function () {
        self.offsets.push(this[0])
        self.targets.push(this[1])
      })
  }
}

```

```

    })
  }

, process: function () {
  var scrollTop = this.$scrollElement.scrollTop() + this.options.offset
  , scrollHeight = this.$scrollElement[0].scrollHeight || this.$body[0].scrollHeight
  , maxScroll = scrollHeight - this.$scrollElement.height()
  , offsets = this.offsets
  , targets = this.targets
  , activeTarget = this.activeTarget
  , i

  if (scrollTop >= maxScroll) {
    return activeTarget != (i = targets.last()[0])
    && this.activate ( i )
  }

  for (i = offsets.length; i--;) {
    activeTarget != targets[i]
    && scrollTop >= offsets[i]
    && (!offsets[i + 1] || scrollTop <= offsets[i + 1])
    && this.activate( targets[i] )
  }
}

, activate: function (target) {
  var active
  , selector

  this.activeTarget = target

  $(this.selector)
  .parent('.active')
  .removeClass('active')

  selector = this.selector
  + '[data-target="' + target + '", '
  + this.selector + '[href="' + target + '"']

  active = $(selector)
  .parent('li')
  .addClass('active')

  if (active.parent('.dropdown-menu').length) {
    active = active.closest('li.dropdown').addClass('active')
  }

  active.trigger('activate')
}

```

```

    }

}

/* SCROLLSPY PLUGIN DEFINITION
 * ===== */

var old = $.fn.scrollspy

$.fn.scrollspy = function (option) {
  return this.each(function () {
    var $this = $(this)
      , data = $this.data('scrollspy')
      , options = typeof option == 'object' && option
    if (!data) $this.data('scrollspy', (data = new ScrollSpy(this, options)))
    if (typeof option == 'string') data[option]()
  })
}

$.fn.scrollspy.Constructor = ScrollSpy

$.fn.scrollspy.defaults = {
  offset: 10
}

/* SCROLLSPY NO CONFLICT
 * ===== */

$.fn.scrollspy.noConflict = function () {
  $.fn.scrollspy = old
  return this
}

/* SCROLLSPY DATA-API
 * ===== */

$(window).on('load', function () {
  $('[data-spy="scroll"]').each(function () {
    var $spy = $(this)
    $spy.scrollspy($spy.data())
  })
})

}(window.jQuery);/* =====
 * bootstrap-tab.js v2.2.2

```

```

* http://twitter.github.com/bootstrap/javascript.html#tabs
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* ===== */

```

```

!function ($) {

"use strict"; // jshint ;_;

/* TAB CLASS DEFINITION
* ===== */

var Tab = function (element) {
  this.element = $(element)
}

Tab.prototype = {

  constructor: Tab

  , show: function () {
    var $this = this.element
      , $ul = $this.closest('ul:not(.dropdown-menu)')
      , selector = $this.attr('data-target')
      , previous
      , $target
      , e

    if (!selector) {
      selector = $this.attr('href')
      selector = selector && selector.replace(/.*(?=#[^\s]*$)/, '') //strip for ie7
    }

    if ( $this.parent('li').hasClass('active') ) return

```

```

previous = $ul.find('.active:last a')[0]

e = $.Event('show', {
  relatedTarget: previous
})

$this.trigger(e)

if (e.isDefaultPrevented()) return

$target = $(selector)

this.activate($this.parent('li'), $ul)
this.activate($target, $target.parent(), function () {
  $this.trigger({
    type: 'shown'
    , relatedTarget: previous
  })
})
}

, activate: function ( element, container, callback) {
  var $active = container.find('> .active')
  , transition = callback
  && $.support.transition
  && $active.hasClass('fade')

  function next() {
    $active
      .removeClass('active')
      .find('> .dropdown-menu > .active')
      .removeClass('active')

    element.addClass('active')

    if (transition) {
      element[0].offsetWidth // reflow for transition
      element.addClass('in')
    } else {
      element.removeClass('fade')
    }
  }

  if ( element.parent('.dropdown-menu') ) {
    element.closest('li.dropdown').addClass('active')
  }

  callback && callback()
}

```

```

    }

    transition ?
    $active.one($.support.transition.end, next) :
    next()

    $active.removeClass('in')
  }
}

/* TAB PLUGIN DEFINITION
* ===== */

var old = $.fn.tab

$.fn.tab = function ( option ) {
  return this.each(function () {
    var $this = $(this)
      , data = $this.data('tab')
    if (!data) $this.data('tab', (data = new Tab(this)))
    if (typeof option == 'string') data[option]()
  })
}

$.fn.tab.Constructor = Tab

/* TAB NO CONFLICT
* ===== */

$.fn.tab.noConflict = function () {
  $.fn.tab = old
  return this
}

/* TAB DATA-API
* ===== */

$(document).on('click.tab.data-api', '[data-toggle="tab"], [data-toggle="pill"]', function (e) {
  e.preventDefault()
  $(this).tab('show')
})

})(window.jQuery);/* =====
* bootstrap-typeahead.js v2.2.2
* http://twitter.github.com/bootstrap/javascript.html#typeahead

```

```

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* ===== */

```

```

!function($){

"use strict"; // jshint ;_

/* TYPEAHEAD PUBLIC CLASS DEFINITION
 * ===== */

var Typeahead = function (element, options) {
  this.$element = $(element)
  this.options = $.extend({}, $.fn.typeahead.defaults, options)
  this.matcher = this.options.matcher || this.matcher
  this.sorter = this.options.sorter || this.sorter
  this.highlighter = this.options.highlighter || this.highlighter
  this.updater = this.options.updater || this.updater
  this.source = this.options.source
  this.$menu = $(this.options.menu)
  this.shown = false
  this.listen()
}

Typeahead.prototype = {

  constructor: Typeahead

  , select: function () {
    var val = this.$menu.find('.active').attr('data-value')
    this.$element
      .val(this.updater(val))
      .change()
    return this.hide()
  }

```

```

    }

    , updater: function (item) {
        return item
    }

    , show: function () {
        var pos = $.extend({}, this.$element.position(), {
            height: this.$element[0].offsetHeight
        })

        this.$menu
            .insertAfter(this.$element)
            .css({
                top: pos.top + pos.height
            , left: pos.left
            })
            .show()

        this.shown = true
        return this
    }

    , hide: function () {
        this.$menu.hide()
        this.shown = false
        return this
    }

    , lookup: function (event) {
        var items

        this.query = this.$element.val()

        if (!this.query || this.query.length < this.options.minLength) {
            return this.shown ? this.hide() : this
        }

        items = $.isFunction(this.source) ? this.source(this.query, $.proxy(this.process, this)) : this.source

        return items ? this.process(items) : this
    }

    , process: function (items) {
        var that = this

        items = $.grep(items, function (item) {
            return that.matcher(item)
        })
    }

```

```

    })

    items = this.sorter(items)

    if (!items.length) {
        return this.shown ? this.hide() : this
    }

    return this.render(items.slice(0, this.options.items)).show()
}

, matcher: function (item) {
    return ~item.toLowerCase().indexOf(this.query.toLowerCase())
}

, sorter: function (items) {
    var beginswith = []
        , caseSensitive = []
        , caseInsensitive = []
        , item

    while (item = items.shift()) {
        if (!item.toLowerCase().indexOf(this.query.toLowerCase())) beginswith.push(item)
        else if (~item.indexOf(this.query)) caseSensitive.push(item)
        else caseInsensitive.push(item)
    }

    return beginswith.concat(caseSensitive, caseInsensitive)
}

, highlighter: function (item) {
    var query = this.query.replace(/[^\[]{}()*+?.,\\^$|#\s]/g, '\\$&')
    return item.replace(new RegExp('(' + query + ')', 'ig'), function ($1, match) {
        return '<strong>' + match + '</strong>'
    })
}

, render: function (items) {
    var that = this

    items = $(items).map(function (i, item) {
        i = $(that.options.item).attr('data-value', item)
        i.find('a').html(that.highlighter(item))
        return i[0]
    })

    items.first().addClass('active')
    this.$menu.html(items)
}

```

```

    return this
  }

  , next: function (event) {
    var active = this.$menu.find('.active').removeClass('active')
    , next = active.next()

    if (!next.length) {
      next = $(this.$menu.find('li')[0])
    }

    next.addClass('active')
  }

  , prev: function (event) {
    var active = this.$menu.find('.active').removeClass('active')
    , prev = active.prev()

    if (!prev.length) {
      prev = this.$menu.find('li').last()
    }

    prev.addClass('active')
  }

  , listen: function () {
    this.$element
      .on('blur', $.proxy(this.blur, this))
      .on('keypress', $.proxy(this.keypress, this))
      .on('keyup', $.proxy(this.keyup, this))

    if (this.eventSupported('keydown')) {
      this.$element.on('keydown', $.proxy(this.keydown, this))
    }

    this.$menu
      .on('click', $.proxy(this.click, this))
      .on('mouseenter', 'li', $.proxy(this.mouseenter, this))
  }

  , eventSupported: function(eventName) {
    var isSupported = eventName in this.$element
    if (!isSupported) {
      this.$element.setAttribute(eventName, 'return;')
      isSupported = typeof this.$element[eventName] === 'function'
    }
    return isSupported
  }
}

```

```

, move: function (e) {
    if (!this.shown) return

    switch(e.keyCode) {
        case 9: // tab
        case 13: // enter
        case 27: // escape
            e.preventDefault()
            break

        case 38: // up arrow
            e.preventDefault()
            this.prev()
            break

        case 40: // down arrow
            e.preventDefault()
            this.next()
            break
    }

    e.stopPropagation()
}

, keydown: function (e) {
    this.suppressKeyPressRepeat = ~$.inArray(e.keyCode, [40,38,9,13,27])
    this.move(e)
}

, keypress: function (e) {
    if (this.suppressKeyPressRepeat) return
    this.move(e)
}

, keyup: function (e) {
    switch(e.keyCode) {
        case 40: // down arrow
        case 38: // up arrow
        case 16: // shift
        case 17: // ctrl
        case 18: // alt
            break

        case 9: // tab
        case 13: // enter
            if (!this.shown) return
            this.select()
    }
}

```

```

        break

    case 27: // escape
        if (!this.shown) return
        this.hide()
        break

    default:
        this.lookup()
    }

    e.stopPropagation()
    e.preventDefault()
}

, blur: function (e) {
    var that = this
    setTimeout(function () { that.hide() }, 150)
}

, click: function (e) {
    e.stopPropagation()
    e.preventDefault()
    this.select()
}

, mouseenter: function (e) {
    this.$menu.find('.active').removeClass('active')
    $(e.currentTarget).addClass('active')
}

}

/* TYPEAHEAD PLUGIN DEFINITION
* ===== */

var old = $.fn.typeahead

$.fn.typeahead = function (option) {
    return this.each(function () {
        var $this = $(this)
            , data = $this.data('typeahead')
            , options = typeof option == 'object' && option
        if (!data) $this.data('typeahead', (data = new Typeahead(this, options)))
        if (typeof option == 'string') data[option]()
    })
}

```

```
$.fn.typeahead.defaults = {
  source: []
, items: 8
, menu: '<ul class="typeahead dropdown-menu"></ul>'
, item: '<li><a href="#"></a></li>'
, minLength: 1
}
```

```
$.fn.typeahead.Constructor = Typeahead
```

```
/* TYPEAHEAD NO CONFLICT
 * ===== */
```

```
$.fn.typeahead.noConflict = function () {
  $.fn.typeahead = old
  return this
}
```

```
/* TYPEAHEAD DATA-API
 * ===== */
```

```
$(document).on('focus.typeahead.data-api', '[data-provide="typeahead"]', function (e) {
  var $this = $(this)
  if ($this.data('typeahead')) return
  e.preventDefault()
  $this.typeahead($this.data())
})
```

```
}(window.jQuery);
```

```
/* =====
```

```
* bootstrap-affix.js v2.2.2
```

```
* http://twitter.github.com/bootstrap/javascript.html#affix
```

```
* =====
```

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```

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* ===== */

!function ($) {

"use strict"; // jshint ;_

/* AFFIX CLASS DEFINITION
* ===== */

var Affix = function (element, options) {
  this.options = $.extend({}, $.fn.affix.defaults, options)
  this.$window = $(window)
    .on('scroll.affix.data-api', $.proxy(this.checkPosition, this))
    .on('click.affix.data-api', $.proxy(function () { setTimeout($.proxy(this.checkPosition, this), 1) }, this))
  this.$element = $(element)
  this.checkPosition()
}

Affix.prototype.checkPosition = function () {
  if (!this.$element.is(':visible')) return

  var scrollHeight = $(document).height()
    , scrollTop = this.$window.scrollTop()
    , position = this.$element.offset()
    , offset = this.options.offset
    , offsetBottom = offset.bottom
    , offsetTop = offset.top
    , reset = 'affix affix-top affix-bottom'
    , affix

  if (typeof offset != 'object') offsetBottom = offsetTop = offset
  if (typeof offsetTop == 'function') offsetTop = offset.top()
  if (typeof offsetBottom == 'function') offsetBottom = offset.bottom()

  affix = this.unpin != null && (scrollTop + this.unpin <= position.top) ?
    false : offsetBottom != null && (position.top + this.$element.height() >= scrollHeight - offsetBottom) ?
    'bottom' : offsetTop != null && scrollTop <= offsetTop ?
    'top' : false

  if (this.affixed === affix) return

  this.affixed = affix
  this.unpin = affix == 'bottom' ? position.top - scrollTop : null

  this.$element.removeClass(reset).addClass('affix' + (affix ? '-' + affix : ''))
}

```

```

}

/* AFFIX PLUGIN DEFINITION
 * ===== */

var old = $.fn.affix

$.fn.affix = function (option) {
  return this.each(function () {
    var $this = $(this)
      , data = $this.data('affix')
      , options = typeof option == 'object' && option
    if (!data) $this.data('affix', (data = new Affix(this, options)))
    if (typeof option == 'string') data[option]()
  })
}

$.fn.affix.Constructor = Affix

$.fn.affix.defaults = {
  offset: 0
}

/* AFFIX NO CONFLICT
 * ===== */

$.fn.affix.noConflict = function () {
  $.fn.affix = old
  return this
}

/* AFFIX DATA-API
 * ===== */

$(window).on('load', function () {
  $('[data-spy="affix"]').each(function () {
    var $spy = $(this)
      , data = $spy.data()

    data.offset = data.offset || {}

    data.offsetBottom && (data.offset.bottom = data.offsetBottom)
    data.offsetTop && (data.offset.top = data.offsetTop)

    $spy.affix(data)
  })
}

```

})
})

}(window.jQuery);
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1.173 balanced-match-1.0.0.tgz 1.0.0

1.174 base-0.11.2.tgz 0.11.2

1.175 base62-1.2.8.tgz 1.2.8

1.176 Base64-1.0.1.tgz 1.0.1

1.177 base64-js-1.3.1.tgz 1.3.1

1.178 batch-processor-1.0.0.tgz 1.0.0

1.179 batik-ext-1.10.jar 1.10

1.180 bcpkix-jdk15on-1.60.jar 1.60

1.181 bcpkix-jdk15on-1.64.jar 1.64

1.182 bcprov-jdk15on-1.55.jar 1.55

1.183 bcprov-jdk15on-1.60.jar 1.60

1.184 bcprov-jdk15on-1.64.jar 1.64

1.185 bcrypt-pbkdf-1.0.2.tgz 1.0.2

1.186 big.js-3.2.0.tgz 3.2.0

1.187 big.js-5.2.2.tgz 5.2.2

1.188 blob-util-1.3.3.tgz 1.3.3

1.189 block-stream-0.0.9.tgz 0.0.9

1.190 bluebird-3.5.0.tgz 3.5.0

1.191 bluebird-3.5.18.tgz 3.5.18

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1.193 brace-expansion-1.1.11.tgz 1.1.11

1.194 bridge-method-annotation-1.13.jar 1.13

1.195 browserslist-2.11.3.tgz 2.11.3

1.196 browserslist-4.8.7.tgz 4.8.7

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1.197 bsh-2.0b6.jar 2.0b6

1.198 bson-3.10.2.jar 3.10.2

1.199 btf-1.2.jar 1.2

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1.202 buffer-crc32-0.2.13.tgz 0.2.13

1.203 buffer-from-1.1.1.tgz 1.1.1

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1.205 byte-buddy-1.7.9.jar 1.7.9

1.206 byte-buddy-1.9.10.jar 1.9.10

1.207 byte-buddy-1.9.11.jar 1.9.11

1.208 byte-buddy-agent-1.10.8.jar 1.10.8

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1.209 c3p0-0.9.5.4.jar 0.9.5.4

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1.211 cachedir-1.3.0.tgz 1.3.0

1.212 caffeine-2.3.5.jar 2.3.5

1.213 caller-callsite-2.0.0.tgz 2.0.0

1.214 caller-path-2.0.0.tgz 2.0.0

1.215 callsites-2.0.0.tgz 2.0.0

1.216 callsites-3.1.0.tgz 3.1.0

1.217 camel-core-2.24.0.jar 2.24.0

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1.225 caseless-0.12.0.tgz 0.12.0

1.226 cglib-asm-1.0 1.0

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1.228 cglib-nodep-2.2.2.jar 2.2.2

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</HEAD>
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<P><B></B><FONT SIZE="3"></FONT>
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1.229 chai-4.0.8.tgz 4.0.8

1.230 chai-jquery-1.1.38.tgz 1.1.38

1.231 chain-function-1.0.1.tgz 1.0.1

1.232 chalk-1.1.3.tgz 1.1.3

1.233 chalk-2.4.2.tgz 2.4.2

1.234 chalk-3.0.0.tgz 3.0.0

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1.235 chardet-0.7.0.tgz 0.7.0

1.236 check-more-types-2.24.0.tgz 2.24.0

1.237 checker-compat-qual-2.5.2.jar 2.5.2

1.238 checker-qual-2.0.0.jar 2.0.0

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1.241 ci-info-2.0.0.tgz 2.0.0

1.242 class-utils-0.3.6.tgz 0.3.6

1.243 classmate-1.3.4.jar 1.3.4

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Other developers who have contributed code are:

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1.245 classnames-2.2.5.tgz 2.2.5

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1.247 clean-stack-2.2.0.tgz 2.2.0

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1.248 cli-cursor-1.0.2.tgz 1.0.2

1.249 cli-cursor-2.1.0.tgz 2.1.0

1.250 cli-cursor-3.1.0.tgz 3.1.0

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1.251 cli-spinners-0.1.2.tgz 0.1.2

1.252 cli-truncate-0.2.1.tgz 0.2.1

1.253 cli-width-2.2.0.tgz 2.2.0

1.254 client-java-7.0.0.jar 7.0.0

1.255 client-java-api-7.0.0.jar 7.0.0

1.256 client-runtime-1.6.4.jar 1.6.4

1.257 clipboard-2.0.4.tgz 2.0.4

1.258 code-frame-7.5.5.tgz 7.5.5

1.259 code-frame-7.8.3.tgz 7.8.3

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1.260 code-point-at-1.1.0.tgz 1.1.0

1.261 codegen-0.6.8.jar 0.6.8

1.262 collection-visit-1.0.0.tgz 1.0.0

1.263 color-3.1.2.tgz 3.1.2

1.264 color-convert-1.9.3.tgz 1.9.3

1.265 color-convert-2.0.1.tgz 2.0.1

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1.266 color-name-1.1.1.tgz 1.1.1

1.267 color-name-1.1.3.tgz 1.1.3

1.268 color-name-1.1.4.tgz 1.1.4

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1.269 color-string-1.5.3.tgz 1.5.3

1.270 combined-stream-1.0.8.tgz 1.0.8

1.271 commander-2.15.1.tgz 2.15.1

1.272 commander-2.17.1.tgz 2.17.1

1.273 commander-2.19.0.tgz 2.19.0

1.274 commander-2.20.3.tgz 2.20.3

1.275 commander-3.0.2.tgz 3.0.2

1.276 commander-4.0.1.tgz 4.0.1

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1.277 common-tags-1.8.0.tgz 1.8.0

1.278 commoner-0.10.8.tgz 0.10.8

1.279 commons-beanutils-1.9.4.jar 1.9.4

1.280 commons-codec-1.10.jar 1.10

1.281 commons-codec-1.13.jar 1.13

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1.282 commons-codec-1.9.jar 1.9

1.283 commons-collections-3.2.2.jar 3.2.2

1.284 commons-collections4-4.1.jar 4.1

1.285 commons-compress-1.19.jar 1.19

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1.286 commons-configuration-1.10.jar 1.10

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1.287 commons-configuration-1.8.jar 1.8

1.288 commons-digester-2.1.jar 2.1

1.289 commons-fileupload-1.4.jar 1.4

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1.290 commons-httpclient-3.1.jar 3.1

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$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/contrib/org/apache/commons/httpclient/contrib/ssl/StrictSSLProtocolSocketFactory.java,v  
1.5 2004/06/10 18:25:24 olegk Exp $  
* $Revision: 480424 $  
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $  
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1.294 commons-io-2.6.jar 2.6

1.295 commons-lang-2.6.jar 2.6

1.296 commons-lang3-3.4.jar 3.4

1.297 commons-lang3-3.7.jar 3.7

1.298 commons-lang3-3.8.1.jar 3.8.1

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1.300 commons-logging-1.0.4.jar 1.0.4

1.301 commons-logging-1.1.3.jar 1.1.3

1.302 commons-logging-1.2.jar 1.2

1.303 commons-net-3.3.jar 3.3

1.304 commons-pool-1.6.jar 1.6

1.305 commons-text-1.8.jar 1.8

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1.306 commons-validator-1.5.1.jar 1.5.1

1.307 compass-mixins-0.12.10.tgz 0.12.10

1.308 component-classes-1.2.6.tgz 1.2.6

1.309 component-emitter-1.3.0.tgz 1.3.0

1.310 component-indexof-0.0.3.tgz 0.0.3

1.311 concat-map-0.0.1.tgz 0.0.1

1.312 concat-stream-1.6.2.tgz 1.6.2

1.313 concurrent-1.3.4.jar 1.3.4

1.314 convert-source-map-1.7.0.tgz 1.7.0

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1.315 converter-jackson-2.4.0.jar 2.4.0

1.316 copy-descriptor-0.1.1.tgz 0.1.1

1.317 core-js-1.2.7.tgz 1.2.7

1.318 core-js-2.5.1.tgz 2.5.1

1.319 core-js-2.6.11.tgz 2.6.11

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1.320 core-util-is-1.0.2.tgz 1.0.2

1.321 cosmiconfig-5.2.1.tgz 5.2.1

1.322 cosmiconfig-6.0.0.tgz 6.0.0

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1.323 create-emotion-9.2.12.tgz 9.2.12

1.324 create-react-class-15.6.3.tgz 15.6.3

1.325 create-react-context-0.2.3.tgz 0.2.3

1.326 create-react-context-0.3.0.tgz 0.3.0

1.327 cross-env-5.0.5.tgz 5.0.5

1.328 cross-spawn-3.0.1.tgz 3.0.1

1.329 cross-spawn-5.1.0.tgz 5.1.0

1.330 cross-spawn-6.0.5.tgz 6.0.5

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1.332 css-animation-1.6.1.tgz 1.6.1

1.333 css-color-keywords-1.0.0.tgz 1.0.0

1.334 css-to-react-native-2.3.2.tgz 2.3.2

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1.337 cypress-file-upload-3.1.2.tgz 3.1.2

1.338 d3 3.5.17

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1.339 d3-3.5.17.min.js 3.5.17

1.340 d3-3.5.17.tgz 3.5.17

1.341 d3-array-1.2.1.tgz 1.2.1

1.342 d3-axis-1.0.8.tgz 1.0.8

1.343 d3-brush-1.0.4.tgz 1.0.4

1.344 d3-collection-1.0.7.tgz 1.0.7

1.345 d3-color-1.4.0.tgz 1.4.0

1.346 d3-dispatch-1.0.6.tgz 1.0.6

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1.347 d3-drag-1.2.5.tgz 1.2.5

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1.348 d3-ease-1.0.6.tgz 1.0.6

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1.349 d3-format-1.3.0.tgz 1.3.0

1.350 d3-hierarchy-1.1.6.tgz 1.1.6

1.351 d3-interpolate-1.3.2.tgz 1.3.2

1.352 d3-interpolate-1.4.0.tgz 1.4.0

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1.353 d3-path-1.0.9.tgz 1.0.9

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1.354 d3-scale-1.0.6.tgz 1.0.6

1.355 d3-scale-2.1.0.tgz 2.1.0

1.356 d3-selection-1.3.0.tgz 1.3.0

1.357 d3-shape-1.2.0.tgz 1.2.0

1.358 d3-time-1.1.0.tgz 1.1.0

1.359 d3-time-format-2.2.3.tgz 2.2.3

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1.361 d3-transition-1.1.1.tgz 1.1.1

1.362 dashdash-1.14.1.tgz 1.14.1

1.363 database-commons-1.12.2.jar 1.12.2

1.364 date-fns-1.30.1.tgz 1.30.1

1.365 Debian ISO 10

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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 compilation and installation of the library.

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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.

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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 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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Version 3, 29 June 2007

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1.368 **debug-3.1.0.tgz 3.1.0**

1.369 debug-3.2.6.tgz 3.2.6

1.370 debug-4.1.1.tgz 4.1.1

1.371 deep-diff-0.3.4.tgz 0.3.4

1.372 deep-diff-0.3.8.tgz 0.3.8

1.373 deep-is-0.1.3.tgz 0.1.3

1.374 define-property-0.2.5.tgz 0.2.5

1.375 define-property-1.0.0.tgz 1.0.0

1.376 define-property-2.0.2.tgz 2.0.2

1.377 defined-1.0.0.tgz 1.0.0

1.378 delayed-stream-1.0.0.tgz 1.0.0

1.379 delegate-3.2.0.tgz 3.2.0

1.380 detective-4.7.1.tgz 4.7.1

1.381 dirgra-0.3.jar 0.3

1.382 disruptor-3.4.2.jar 3.4.2

1.383 docker-ubuntu-vnc-desktop 0.3

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#!/usr/bin/env python

'''

Python WebSocket library with support for "wss://" encryption.
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Supports following protocol versions:

- <http://tools.ietf.org/html/draft-ietf-hybi-thewebsocketprotocol-07>
- <http://tools.ietf.org/html/draft-ietf-hybi-thewebsocketprotocol-10>
- <http://tools.ietf.org/html/rfc6455>

You can make a cert/key with openssl using:

```
openssl req -new -x509 -days 365 -nodes -out self.pem -keyout self.pem  
as taken from http://docs.python.org/dev/library/ssl.html#certificates
```

```
'''
```

```
import os, sys, time, errno, signal, socket, traceback, select  
import array, struct  
from base64 import b64encode, b64decode  
  
# Imports that vary by python version  
  
# python 3.0 differences  
if sys.hexversion > 0x3000000:  
    b2s = lambda buf: buf.decode('latin_1')  
    s2b = lambda s: s.encode('latin_1')  
    s2a = lambda s: s  
else:  
    b2s = lambda buf: buf # No-op  
    s2b = lambda s: s # No-op  
    s2a = lambda s: [ord(c) for c in s]  
try: from io import StringIO  
except: from cStringIO import StringIO  
try: from http.server import SimpleHTTPRequestHandler  
except: from SimpleHTTPServer import SimpleHTTPRequestHandler  
  
# python 2.6 differences  
try: from hashlib import sha1  
except: from sha import sha as sha1  
  
# python 2.5 differences  
try:  
    from struct import pack, unpack_from  
except:  
    from struct import pack  
    def unpack_from(fmt, buf, offset=0):  
        slice = buffer(buf, offset, struct.calcsize(fmt))  
        return struct.unpack(fmt, slice)  
  
# Degraded functionality if these imports are missing  
for mod, msg in [(('numpy', 'HyBi protocol will be slower'),  
                 ('ssl', 'TLS/SSL/wss is disabled'),  
                 ('multiprocessing', 'Multi-Processing is disabled'),  
                 ('resource', 'daemonizing is disabled'))]:  
    try:  
        globals()[mod] = __import__(mod)  
    except ImportError:
```

```

globals()[mod] = None
print("WARNING: no '%s' module, %s" % (mod, msg))
if multiprocessing and sys.platform == 'win32':
    # make sockets pickle-able/inheritable
    import multiprocessing.reduction

class WebSocketServer(object):
    """
    WebSockets server class.
    Must be sub-classed with new_client method definition.
    """

    buffer_size = 65536

    server_handshake_hybi = """HTTP/1.1 101 Switching Protocols\r
Upgrade: websocket\r
Connection: Upgrade\r
Sec-WebSocket-Accept: %s\r
"""

    GUID = "258EAF55-E914-47DA-95CA-C5AB0DC85B11"

    policy_response = """<cross-domain-policy><allow-access-from domain="*" to-ports="*" /></cross-domain-
policy>\n"""

    # An exception before the WebSocket connection was established
    class EClose(Exception):
        pass

    # An exception while the WebSocket client was connected
    class CClose(Exception):
        pass

    def __init__(self, listen_host="", listen_port=None, source_is_ipv6=False,
                 verbose=False, cert="", key="", ssl_only=None,
                 daemon=False, record="", web="",
                 run_once=False, timeout=0, idle_timeout=0):

        # settings
        self.verbose = verbose
        self.listen_host = listen_host
        self.listen_port = listen_port
        self.prefer_ipv6 = source_is_ipv6
        self.ssl_only = ssl_only
        self.daemon = daemon
        self.run_once = run_once
        self.timeout = timeout

```

```

self.idle_timeout = idle_timeout

self.launch_time = time.time()
self.ws_connection = False
self.handler_id = 1

# Make paths settings absolute
self.cert = os.path.abspath(cert)
self.key = self.web = self.record = ""
if key:
    self.key = os.path.abspath(key)
if web:
    self.web = os.path.abspath(web)
if record:
    self.record = os.path.abspath(record)

if self.web:
    os.chdir(self.web)

# Sanity checks
if not ssl and self.ssl_only:
    raise Exception("No 'ssl' module and SSL-only specified")
if self.daemon and not resource:
    raise Exception("Module 'resource' required to daemonize")

# Show configuration
print("WebSocket server settings:")
print(" - Listen on %s:%s" % (
    self.listen_host, self.listen_port))
print(" - Flash security policy server")
if self.web:
    print(" - Web server. Web root: %s" % self.web)
if ssl:
    if os.path.exists(self.cert):
        print(" - SSL/TLS support")
        if self.ssl_only:
            print(" - Deny non-SSL/TLS connections")
        else:
            print(" - No SSL/TLS support (no cert file)")
    else:
        print(" - No SSL/TLS support (no 'ssl' module)")
if self.daemon:
    print(" - Backgrounding (daemon)")
if self.record:
    print(" - Recording to '%s.*'" % self.record)

#
# WebSocketServer static methods

```

```

#

@staticmethod
def socket(host, port=None, connect=False, prefer_ipv6=False, unix_socket=None, use_ssl=False):
    """ Resolve a host (and optional port) to an IPv4 or IPv6
    address. Create a socket. Bind to it if listen is set,
    otherwise connect to it. Return the socket.
    """
    flags = 0
    if host == "":
        host = None
    if connect and not (port or unix_socket):
        raise Exception("Connect mode requires a port")
    if use_ssl and not ssl:
        raise Exception("SSL socket requested but Python SSL module not loaded.");
    if not connect and use_ssl:
        raise Exception("SSL only supported in connect mode (for now)")
    if not connect:
        flags = flags | socket.AI_PASSIVE

    if not unix_socket:
        addrs = socket.getaddrinfo(host, port, 0, socket.SOCK_STREAM,
            socket.IPPROTO_TCP, flags)
        if not addrs:
            raise Exception("Could not resolve host '%s'" % host)
        addrs.sort(key=lambda x: x[0])
        if prefer_ipv6:
            addrs.reverse()
        sock = socket.socket(addrs[0][0], addrs[0][1])
        if connect:
            sock.connect(addrs[0][4])
            if use_ssl:
                sock = ssl.wrap_socket(sock)
        else:
            sock.setsockopt(socket.SOL_SOCKET, socket.SO_REUSEADDR, 1)
            sock.bind(addrs[0][4])
            sock.listen(100)
    else:
        sock = socket.socket(socket.AF_UNIX, socket.SOCK_STREAM)
        sock.connect(unix_socket)

    return sock

@staticmethod
def daemonize(keepfd=None, chdir='/'):
    os.umask(0)
    if chdir:
        os.chdir(chdir)

```

```

else:
    os.chdir('/')
    os.setgid(os.getgid()) # relinquish elevations
    os.setuid(os.getuid()) # relinquish elevations

# Double fork to daemonize
if os.fork() > 0: os._exit(0) # Parent exits
os.setsid()      # Obtain new process group
if os.fork() > 0: os._exit(0) # Parent exits

# Signal handling
def terminate(a,b): os._exit(0)
signal.signal(signal.SIGTERM, terminate)
signal.signal(signal.SIGINT, signal.SIG_IGN)

# Close open files
maxfd = resource.getrlimit(resource.RLIMIT_NOFILE)[1]
if maxfd == resource.RLIM_INFINITY: maxfd = 256
for fd in reversed(range(maxfd)):
    try:
        if fd != keepfd:
            os.close(fd)
    except OSError:
        _, exc, _ = sys.exc_info()
        if exc.errno != errno.EBADF: raise

# Redirect I/O to /dev/null
os.dup2(os.open(os.devnull, os.O_RDWR), sys.stdin.fileno())
os.dup2(os.open(os.devnull, os.O_RDWR), sys.stdout.fileno())
os.dup2(os.open(os.devnull, os.O_RDWR), sys.stderr.fileno())

@staticmethod
def unmask(buf, hlen, plen):
    pstart = hlen + 4
    pend = pstart + plen
    if numpy:
        b = c = s2b("")
        if plen >= 4:
            mask = numpy.frombuffer(buf, dtype=numpy.dtype('<u4'),
                                     offset=hlen, count=1)
            data = numpy.frombuffer(buf, dtype=numpy.dtype('<u4'),
                                    offset=pstart, count=int(plen / 4))
            #b = numpy.bitwise_xor(data, mask).data
            b = numpy.bitwise_xor(data, mask).tostring()

    if plen % 4:
        #print("Partial unmask")
        mask = numpy.frombuffer(buf, dtype=numpy.dtype('B'),

```

```

        offset=hlen, count=(plen % 4))
    data = numpy.frombuffer(buf, dtype=numpy.dtype('B'),
        offset=pend - (plen % 4),
        count=(plen % 4))
    c = numpy.bitwise_xor(data, mask).tostring()
    return b + c
else:
    # Slower fallback
    mask = buf[hlen:hlen+4]
    data = array.array('B')
    mask = s2a(mask)
    data.fromstring(buf[pstart:pend])
    for i in range(len(data)):
        data[i] ^= mask[i % 4]
    return data.tostring()

@staticmethod
def encode_hybi(buf, opcode, base64=False):
    """ Encode a HyBi style WebSocket frame.
    Optional opcode:
    0x0 - continuation
    0x1 - text frame (base64 encode buf)
    0x2 - binary frame (use raw buf)
    0x8 - connection close
    0x9 - ping
    0xA - pong
    """
    if base64:
        buf = b64encode(buf)

    b1 = 0x80 | (opcode & 0x0f) # FIN + opcode
    payload_len = len(buf)
    if payload_len <= 125:
        header = pack('>BB', b1, payload_len)
    elif payload_len > 125 and payload_len < 65536:
        header = pack('>BBH', b1, 126, payload_len)
    elif payload_len >= 65536:
        header = pack('>BBQ', b1, 127, payload_len)

    #print("Encoded: %s" % repr(header + buf))

    return header + buf, len(header), 0

@staticmethod
def decode_hybi(buf, base64=False):
    """ Decode HyBi style WebSocket packets.
    Returns:
    {'fin'      : 0_or_1,

```

```

        'opcode'    : number,
        'masked'    : boolean,
        'hlen'      : header_bytes_number,
        'length'    : payload_bytes_number,
        'payload'    : decoded_buffer,
        'left'      : bytes_left_number,
        'close_code' : number,
        'close_reason' : string }
    """

    f = { 'fin'      : 0,
          'opcode'   : 0,
          'masked'   : False,
          'hlen'     : 2,
          'length'   : 0,
          'payload'  : None,
          'left'     : 0,
          'close_code' : 1000,
          'close_reason' : '' }

    blen = len(buf)
    f['left'] = blen

    if blen < f['hlen']:
        return f # Incomplete frame header

    b1, b2 = unpack_from(">BB", buf)
    f['opcode'] = b1 & 0x0f
    f['fin'] = (b1 & 0x80) >> 7
    f['masked'] = (b2 & 0x80) >> 7

    f['length'] = b2 & 0x7f

    if f['length'] == 126:
        f['hlen'] = 4
        if blen < f['hlen']:
            return f # Incomplete frame header
        (f['length'],) = unpack_from('>xxH', buf)
    elif f['length'] == 127:
        f['hlen'] = 10
        if blen < f['hlen']:
            return f # Incomplete frame header
        (f['length'],) = unpack_from('>xxQ', buf)

    full_len = f['hlen'] + f['masked'] * 4 + f['length']

    if blen < full_len: # Incomplete frame
        return f # Incomplete frame header

```

```

# Number of bytes that are part of the next frame(s)
f['left'] = blen - full_len

# Process 1 frame
if f['masked']:
    # unmask payload
    f['payload'] = WebSocketServer.unmask(buf, f['hlen'],
                                          f['length'])
else:
    print("Unmasked frame: %s" % repr(buf))
    f['payload'] = buf[(f['hlen'] + f['masked'] * 4):full_len]

if base64 and f['opcode'] in [1, 2]:
    try:
        f['payload'] = b64decode(f['payload'])
    except:
        print("Exception while b64decoding buffer: %s" %
              repr(buf))
        raise

if f['opcode'] == 0x08:
    if f['length'] >= 2:
        f['close_code'] = unpack_from(">H", f['payload'])[0]
    if f['length'] > 3:
        f['close_reason'] = f['payload'][2:]

return f

```

```

#
# WebSocketServer logging/output functions
#

```

```

def traffic(self, token="."):
    """ Show traffic flow in verbose mode. """
    if self.verbose and not self.daemon:
        sys.stdout.write(token)
        sys.stdout.flush()

```

```

def msg(self, msg):
    """ Output message with handler_id prefix. """
    if not self.daemon:
        print("% 3d: %s" % (self.handler_id, msg))

```

```

def vmsg(self, msg):
    """ Same as msg() but only if verbose. """
    if self.verbose:

```

```

self.msg(msg)

#
# Main WebSocketServer methods
#
def send_frames(self, bufs=None):
    """ Encode and send WebSocket frames. Any frames already
    queued will be sent first. If buf is not set then only queued
    frames will be sent. Returns the number of pending frames that
    could not be fully sent. If returned pending frames is greater
    than 0, then the caller should call again when the socket is
    ready. """

    tdelta = int(time.time()*1000) - self.start_time

    if bufs:
        for buf in bufs:
            if self.base64:
                encbuf, lenhead, lentail = self.encode_hybi(buf, opcode=1, base64=True)
            else:
                encbuf, lenhead, lentail = self.encode_hybi(buf, opcode=2, base64=False)

            if self.rec:
                self.rec.write("%s,\n" %
                    repr("{%s{" % tdelta
                        + encbuf[lenhead:len(encbuf)-lentail]))

                self.send_parts.append(encbuf)

        while self.send_parts:
            # Send pending frames
            buf = self.send_parts.pop(0)
            sent = self.client.send(buf)

            if sent == len(buf):
                self.traffic("<")
            else:
                self.traffic("<.")
                self.send_parts.insert(0, buf[sent:])
                break

        return len(self.send_parts)

def recv_frames(self):
    """ Receive and decode WebSocket frames.

    Returns:
        (bufs_list, closed_string)

```

```

"""

closed = False
bufs = []
tdelta = int(time.time()*1000) - self.start_time

buf = self.client.recv(self.buffer_size)
if len(buf) == 0:
    closed = {'code': 1000, 'reason': "Client closed abruptly"}
    return bufs, closed

if self.recv_part:
    # Add partially received frames to current read buffer
    buf = self.recv_part + buf
    self.recv_part = None

while buf:
    frame = self.decode_hybi(buf, base64=self.base64)
    #print("Received buf: %s, frame: %s" % (repr(buf), frame))

    if frame['payload'] == None:
        # Incomplete/partial frame
        self.traffic("}.")
        if frame['left'] > 0:
            self.recv_part = buf[-frame['left']:]
            break
    else:
        if frame['opcode'] == 0x8: # connection close
            closed = {'code': frame['close_code'],
                    'reason': frame['close_reason']}
            break

    self.traffic("{}")

    if self.rec:
        start = frame['hlen']
        end = frame['hlen'] + frame['length']
        if frame['masked']:
            recbuf = WebSocketServer.unmask(buf, frame['hlen'],
                                           frame['length'])
        else:
            recbuf = buf[frame['hlen']:frame['hlen'] +
                        frame['length']]
        self.rec.write("%s,\n" %
                      repr("{}%s}" % tdelta + recbuf))

    bufs.append(frame['payload'])

```

```

    if frame['left']:
        buf = buf[-frame['left']:]
    else:
        buf = "

return bufs, closed

def send_close(self, code=1000, reason="):
    """ Send a WebSocket orderly close frame. """

    msg = pack(">H%ds" % len(reason), code, reason)
    buf, h, t = self.encode_hybi(msg, opcode=0x08, base64=False)
    self.client.send(buf)

def do_websocket_handshake(self, headers, path):
    h = self.headers = headers
    self.path = path

    prot = 'WebSocket-Protocol'
    protocols = h.get('Sec-'+prot, h.get(prot, "")).split(',')

    ver = h.get('Sec-WebSocket-Version')
    if ver:
        # HyBi/IETF version of the protocol

        # HyBi-07 report version 7
        # HyBi-08 - HyBi-12 report version 8
        # HyBi-13 reports version 13
        if ver in ['7', '8', '13']:
            self.version = "hybi-%02d" % int(ver)
        else:
            raise self.ECclose('Unsupported protocol version %s' % ver)

    key = h['Sec-WebSocket-Key']

    # Choose binary if client supports it
    if 'binary' in protocols:
        self.base64 = False
    elif 'base64' in protocols:
        self.base64 = True
    else:
        raise self.ECclose("Client must support 'binary' or 'base64' protocol")

    # Generate the hash value for the accept header
    accept = b64encode(sha1(s2b(key + self.GUID)).digest())

    response = self.server_handshake_hybi % b2s(accept)

```

```

    if self.base64:
        response += "Sec-WebSocket-Protocol: base64\r\n"
    else:
        response += "Sec-WebSocket-Protocol: binary\r\n"
    response += "\r\n"

else:
    raise self.EClose("Missing Sec-WebSocket-Version header. Hixie protocols not supported.")

return response

def do_handshake(self, sock, address):
    """
    do_handshake does the following:
    - Peek at the first few bytes from the socket.
    - If the connection is Flash policy request then answer it,
      close the socket and return.
    - If the connection is an HTTPS/SSL/TLS connection then SSL
      wrap the socket.
    - Read from the (possibly wrapped) socket.
    - If we have received a HTTP GET request and the webserver
      functionality is enabled, answer it, close the socket and
      return.
    - Assume we have a WebSockets connection, parse the client
      handshake data.
    - Send a WebSockets handshake server response.
    - Return the socket for this WebSocket client.
    """
    stype = ""
    ready = select.select([sock], [], [], 3)[0]

    if not ready:
        raise self.EClose("ignoring socket not ready")
    # Peek, but do not read the data so that we have a opportunity
    # to SSL wrap the socket first
    handshake = sock.recv(1024, socket.MSG_PEEK)
    #self.msg("Handshake [%s]" % handshake)

    if handshake == "":
        raise self.EClose("ignoring empty handshake")

    elif handshake.startswith(s2b("<policy-file-request/>")):
        # Answer Flash policy request
        handshake = sock.recv(1024)
        sock.send(s2b(self.policy_response))
        raise self.EClose("Sending flash policy response")

```

```

elif handshake[0] in ("\x16", "\x80", 22, 128):
    # SSL wrap the connection
    if not ssl:
        raise self.EClose("SSL connection but no 'ssl' module")
    if not os.path.exists(self.cert):
        raise self.EClose("SSL connection but '%s' not found"
                          % self.cert)
    retsock = None
    try:
        retsock = ssl.wrap_socket(
            sock,
            server_side=True,
            certfile=self.cert,
            keyfile=self.key)
    except ssl.SSLError:
        _, x, _ = sys.exc_info()
        if x.args[0] == ssl.SSL_ERROR_EOF:
            if len(x.args) > 1:
                raise self.EClose(x.args[1])
            else:
                raise self.EClose("Got SSL_ERROR_EOF")
        else:
            raise

    self.scheme = "wss"
    stype = "SSL/TLS (wss://)"

elif self.ssl_only:
    raise self.EClose("non-SSL connection received but disallowed")

else:
    retsock = sock
    self.scheme = "ws"
    stype = "Plain non-SSL (ws://)"

wsh = WSRequestHandler(retsock, address, not self.web)
if wsh.last_code == 101:
    # Continue on to handle WebSocket upgrade
    pass
elif wsh.last_code == 405:
    raise self.EClose("Normal web request received but disallowed")
elif wsh.last_code < 200 or wsh.last_code >= 300:
    raise self.EClose(wsh.last_message)
elif self.verbose:
    raise self.EClose(wsh.last_message)
else:
    raise self.EClose("")

```

```

response = self.do_websocket_handshake(wsh.headers, wsh.path)

self.msg("%s: %s WebSocket connection" % (address[0], stype))
self.msg("%s: Version %s, base64: '%s'" % (address[0],
    self.version, self.base64))
if self.path != '/':
    self.msg("%s: Path: '%s'" % (address[0], self.path))

# Send server WebSockets handshake response
#self.msg("sending response [%s]" % response)
retsock.send(s2b(response))

# Return the WebSockets socket which may be SSL wrapped
return retsock

#
# Events that can/should be overridden in sub-classes
#
def started(self):
    """ Called after WebSockets startup """
    self.vmsg("WebSockets server started")

def poll(self):
    """ Run periodically while waiting for connections. """
    #self.vmsg("Running poll()")
    pass

def fallback_SIGCHLD(self, sig, stack):
    # Reap zombies when using os.fork() (python 2.4)
    self.vmsg("Got SIGCHLD, reaping zombies")
    try:
        result = os.waitpid(-1, os.WNOHANG)
        while result[0]:
            self.vmsg("Reaped child process %s" % result[0])
            result = os.waitpid(-1, os.WNOHANG)
    except (OSError):
        pass

def do_SIGINT(self, sig, stack):
    self.msg("Got SIGINT, exiting")
    sys.exit(0)

def top_new_client(self, startsock, address):
    """ Do something with a WebSockets client connection. """
    # Initialize per client settings

```

```

self.send_parts = []
self.recv_part = None
self.base64 = False
self.rec = None
self.start_time = int(time.time()*1000)

# handler process
try:
    try:
        self.client = self.do_handshake(startsock, address)

        if self.record:
            # Record raw frame data as JavaScript array
            fname = "%s.%s" % (self.record,
                               self.handler_id)
            self.msg("opening record file: %s" % fname)
            self.rec = open(fname, 'w+')
            encoding = "binary"
            if self.base64: encoding = "base64"
            self.rec.write("var VNC_frame_encoding = '%s';\n"
                          % encoding)
            self.rec.write("var VNC_frame_data = [\n")

            self.ws_connection = True
            self.new_client()
        except self.CCclose:
            # Close the client
            _, exc, _ = sys.exc_info()
            if self.client:
                self.send_close(exc.args[0], exc.args[1])
        except self.ECclose:
            _, exc, _ = sys.exc_info()
            # Connection was not a WebSockets connection
            if exc.args[0]:
                self.msg("%s: %s" % (address[0], exc.args[0]))
        except Exception:
            _, exc, _ = sys.exc_info()
            self.msg("handler exception: %s" % str(exc))
            if self.verbose:
                self.msg(traceback.format_exc())
    finally:
        if self.rec:
            self.rec.write("EOF"]; \n")
            self.rec.close()

        if self.client and self.client != startsock:
            # Close the SSL wrapped socket
            # Original socket closed by caller

```

```

        self.client.close()

def new_client(self):
    """ Do something with a WebSockets client connection. """
    raise("WebSocketServer.new_client() must be overloaded")

def start_server(self):
    """
    Daemonize if requested. Listen for for connections. Run
    do_handshake() method for each connection. If the connection
    is a WebSockets client then call new_client() method (which must
    be overridden) for each new client connection.
    """
    lsock = self.socket(self.listen_host, self.listen_port, False, self.prefer_ipv6)

    if self.daemon:
        self.daemonize(keepfd=lsock.fileno(), chdir=self.web)

    self.started() # Some things need to happen after daemonizing

    # Allow override of SIGINT
    signal.signal(signal.SIGINT, self.do_SIGINT)
    if not multiprocessing:
        # os.fork() (python 2.4) child reaper
        signal.signal(signal.SIGCHLD, self.fallback_SIGCHLD)

    last_active_time = self.launch_time
    while True:
        try:
            try:
                self.client = None
                startsock = None
                pid = err = 0
                child_count = 0

                if multiprocessing and self.idle_timeout:
                    child_count = len(multiprocessing.active_children())

                time_elapsed = time.time() - self.launch_time
                if self.timeout and time_elapsed > self.timeout:
                    self.msg('listener exit due to --timeout %s'
                             % self.timeout)
                    break

                if self.idle_timeout:
                    idle_time = 0
                    if child_count == 0:
                        idle_time = time.time() - last_active_time

```

```

else:
    idle_time = 0
    last_active_time = time.time()

if idle_time > self.idle_timeout and child_count == 0:
    self.msg('listener exit due to --idle-timeout %s'
            % self.idle_timeout)
    break

try:
    self.poll()

    ready = select.select([lsock], [], [], 1)[0]
    if lsock in ready:
        startsock, address = lsock.accept()
    else:
        continue
except Exception:
    _, exc, _ = sys.exc_info()
    if hasattr(exc, 'errno'):
        err = exc.errno
    elif hasattr(exc, 'args'):
        err = exc.args[0]
    else:
        err = exc[0]
    if err == errno.EINTR:
        self.vmsg("Ignoring interrupted syscall")
        continue
    else:
        raise

if self.run_once:
    # Run in same process if run_once
    self.top_new_client(startsock, address)
    if self.ws_connection :
        self.msg('%s: exiting due to --run-once'
                % address[0])
        break
elif multiprocessing:
    self.vmsg('%s: new handler Process' % address[0])
    p = multiprocessing.Process(
        target=self.top_new_client,
        args=(startsock, address))
    p.start()
    # child will not return
else:
    # python 2.4
    self.vmsg('%s: forking handler' % address[0])

```

```

        pid = os.fork()
        if pid == 0:
            # child handler process
            self.top_new_client(startsock, address)
            break # child process exits

    # parent process
    self.handler_id += 1

except KeyboardInterrupt:
    _, exc, _ = sys.exc_info()
    print("In KeyboardInterrupt")
    pass
except SystemExit:
    _, exc, _ = sys.exc_info()
    print("In SystemExit")
    break
except Exception:
    _, exc, _ = sys.exc_info()
    self.msg("handler exception: %s" % str(exc))
    if self.verbose:
        self.msg(traceback.format_exc())

finally:
    if startsock:
        startsock.close()

# Close listen port
self.vmsg("Closing socket listening at %s:%s"
          % (self.listen_host, self.listen_port))
lsock.close()

# HTTP handler with WebSocket upgrade support
class WSRequestHandler(SimpleHTTPRequestHandler):
    def __init__(self, req, addr, only_upgrade=False):
        self.only_upgrade = only_upgrade # only allow upgrades
        SimpleHTTPRequestHandler.__init__(self, req, addr, object())

    def do_GET(self):
        if (self.headers.get('upgrade') and
            self.headers.get('upgrade').lower() == 'websocket'):

            # Just indicate that an WebSocket upgrade is needed
            self.last_code = 101
            self.last_message = "101 Switching Protocols"
            elif self.only_upgrade:
                # Normal web request responses are disabled

```

```

        self.last_code = 405
        self.last_message = "405 Method Not Allowed"
    else:
        SimpleHTTPRequestHandler.do_GET(self)

def send_response(self, code, message=None):
    # Save the status code
    self.last_code = code
    SimpleHTTPRequestHandler.send_response(self, code, message)

def log_message(self, f, *args):
    # Save instead of printing
    self.last_message = f % args

```

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1.384 doctrine-1.5.0.tgz 1.5.0

1.385 doctrine-2.1.0.tgz 2.1.0

1.386 doctrine-3.0.0.tgz 3.0.0

1.387 dom-align-1.10.4.tgz 1.10.4

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1.388 dom-css-2.1.0.tgz 2.1.0

1.389 dom-helpers-3.4.0.tgz 3.4.0

1.390 dom4j-1.6.1.jar 1.6.1

1.391 dom4j-2.1.1.jar 2.1.1

1.392 dozer-core-6.5.0.jar 6.5.0

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1.393 dozer-spring4-6.5.0.jar 6.5.0

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1.394 duct-tape-1.0.8.jar 1.0.8

1.395 ecc-jsbn-0.1.2.tgz 0.1.2

1.396 ecj-4.3.1.jar 4.3.1

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1.403 emoji-regex-7.0.3.tgz 7.0.3

1.404 emoji-regex-8.0.0.tgz 8.0.0

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1.405 emojis-list-2.1.0.tgz 2.1.0

1.406 emotion-9.2.12.tgz 9.2.12

1.407 encoding-0.1.12.tgz 0.1.12

1.408 end-of-stream-1.4.4.tgz 1.4.4

1.409 envify-3.4.1.tgz 3.4.1

1.410 error-ex-1.3.2.tgz 1.3.2

1.411 error_prone_annotations-2.1.3.jar 2.1.3

1.412 error_prone_annotations-2.3.4.jar 2.3.4

1.413 es5-shim-4.5.13.tgz 4.5.13

1.414 es6-promise-2.3.0.tgz 2.3.0

1.415 esapi-2.1.0.1.jar 2.1.0.1

1.416 escape-string-regexp-1.0.5.tgz 1.0.5

1.417 eslint-5.16.0.tgz 5.16.0

1.418 eslint-scope-4.0.3.tgz 4.0.3

1.419 eslint-utils-1.4.3.tgz 1.4.3

1.420 eslint-visitor-keys-1.1.0.tgz 1.1.0

1.421 espree-5.0.1.tgz 5.0.1

1.422 esprima-3.1.3.tgz 3.1.3

1.423 esprima-4.0.1.tgz 4.0.1

1.424 esprima-fb-15001.1.0-dev-harmony-fb.tgz 15001.1.0-dev-harmony-fb

1.425 esquery-1.0.1.tgz 1.0.1

1.426 esquery-1.1.0.tgz 1.1.0

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1.427 esrecurse-4.2.1.tgz 4.2.1

1.428 estraverse-4.3.0.tgz 4.3.0

1.429 esutils-2.0.3.tgz 2.0.3

1.430 execa-0.10.0.tgz 0.10.0

1.431 execa-0.7.0.tgz 0.7.0

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1.432 execa-1.0.0.tgz 1.0.0

1.433 execa-2.1.0.tgz 2.1.0

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1.434 executable-4.1.1.tgz 4.1.1

1.435 exit-hook-1.1.1.tgz 1.1.1

1.436 expand-brackets-2.1.4.tgz 2.1.4

1.437 exports-loader-0.7.0.tgz 0.7.0

1.438 extend-3.0.2.tgz 3.0.2

1.439 extend-shallow-2.0.1.tgz 2.0.1

1.440 extend-shallow-3.0.2.tgz 3.0.2

1.441 external-editor-3.1.0.tgz 3.1.0

1.442 extglob-2.0.4.tgz 2.0.4

1.443 extract-zip-1.6.7.tgz 1.6.7

1.444 extsprintf-1.3.0.tgz 1.3.0

1.445 failureaccess-1.0.1.jar 1.0.1

1.446 fast-deep-equal-1.1.0.tgz 1.1.0

1.447 fast-deep-equal-2.0.1.tgz 2.0.1

1.448 fast-deep-equal-3.1.1.tgz 3.1.1

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1.449 fast-json-stable-stringify-2.0.0.tgz 2.0.0

1.450 fast-json-stable-stringify-2.1.0.tgz 2.1.0

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1.451 fast-levenshtein-2.0.6.tgz 2.0.6

1.452 FastInfoSet-1.2.15.jar 1.2.15

1.453 fault-1.0.4.tgz 1.0.4

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1.454 fbemitter-2.1.1.tgz 2.1.1

1.455 fbjs-0.6.1.tgz 0.6.1

1.456 fbjs-0.8.17.tgz 0.8.17

1.457 fd-slicer-1.0.1.tgz 1.0.1

1.458 fd-slicer-1.1.0.tgz 1.1.0

1.459 figures-1.7.0.tgz 1.7.0

1.460 figures-2.0.0.tgz 2.0.0

1.461 figures-3.2.0.tgz 3.2.0

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1.462 file-entry-cache-5.0.1.tgz 5.0.1

1.463 find-root-1.1.0.tgz 1.1.0

1.464 flat-cache-2.0.1.tgz 2.0.1

1.465 flatted-2.0.1.tgz 2.0.1

1.466 flux-3.1.3.tgz 3.1.3

1.467 flyway-core-4.0.3.jar 4.0.3

1.468 focus-trap-2.4.6.tgz 2.4.6

1.469 follow-redirects-1.5.10.tgz 1.5.10

1.470 for-in-1.0.2.tgz 1.0.2

1.471 for-own-1.0.0.tgz 1.0.0

1.472 forever-agent-0.6.1.tgz 0.6.1

1.473 form-data-2.3.3.tgz 2.3.3

1.474 format-0.2.2.tgz 0.2.2

1.475 fragment-cache-0.2.1.tgz 0.2.1

1.476 fs-extra-5.0.0.tgz 5.0.0

1.477 fs-extra-8.1.0.tgz 8.1.0

1.478 fs-minipass-1.2.5.tgz 1.2.5

1.479 fs.realpath-1.0.0.tgz 1.0.0

1.480 functional-red-black-tree-1.0.1.tgz 1.0.1

1.481 gax-1.44.0.jar 1.44.0

1.482 gax-grpc-1.44.0.jar 1.44.0

1.483 generator-7.8.4.tgz 7.8.4

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1.484 generex-1.0.1.jar 1.0.1

1.485 generex-1.0.2.jar 1.0.2

1.486 geronimo-jta_1.1_spec-1.1.1.jar 1.1.1

1.487 get-stream-3.0.0.tgz 3.0.0

1.488 get-stream-4.1.0.tgz 4.1.0

1.489 get-stream-5.1.0.tgz 5.1.0

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1.490 get-value-2.0.6.tgz 2.0.6

1.491 getos-3.1.1.tgz 3.1.1

1.492 getpass-0.1.7.tgz 0.1.7

1.493 github.com/asaskevich/govalidator-v10 v10

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**1.494 github.com/asaskevich/govalidator-v9
v9**

**1.495 github.com/aws/aws-sdk-go/[aws](https://github.com/aws/aws-sdk-go)-
v1.15.1 v1.15.1**

**1.496 [github.com/aws/aws-sdk-](https://github.com/aws/aws-sdk-go)
[go](https://github.com/aws/aws-sdk-go)/[aws](https://github.com/aws/aws-sdk-go)/[awserr](https://github.com/aws/aws-sdk-go)-v1.15.1 v1.15.1**

**1.497 [github.com/aws/aws-sdk-](https://github.com/aws/aws-sdk-go)
[go](https://github.com/aws/aws-sdk-go)/[aws](https://github.com/aws/aws-sdk-go)/[awsutil](https://github.com/aws/aws-sdk-go)-v1.15.1 v1.15.1**

**1.498 github.com/aws/aws-sdk-go/[aws](https://github.com/aws/aws-sdk-go)/[client](https://github.com/aws/aws-sdk-go)-
v1.15.1 v1.15.1**

**1.499 [github.com/aws/aws-sdk-](https://github.com/aws/aws-sdk-go)
[go](https://github.com/aws/aws-sdk-go)/[aws](https://github.com/aws/aws-sdk-go)/[client](https://github.com/aws/aws-sdk-go)/[metadata](https://github.com/aws/aws-sdk-go)-v1.15.1 v1.15.1**

**1.500 [github.com/aws/aws-sdk-](https://github.com/aws/aws-sdk-go)
[go](https://github.com/aws/aws-sdk-go)/[aws](https://github.com/aws/aws-sdk-go)/[corehandlers](https://github.com/aws/aws-sdk-go)-v1.15.1 v1.15.1**

1.501 github.com/aws/aws-sdk-go/aws/credentials-v1.15.1 v1.15.1

1.502 github.com/aws/aws-sdk-go/aws/credentials/ec2rolecreds-v1.15.1 v1.15.1

1.503 github.com/aws/aws-sdk-go/aws/credentials/endpointcreds-v1.15.1 v1.15.1

1.504 github.com/aws/aws-sdk-go/aws/credentials/stscreds-v1.15.1 v1.15.1

1.505 github.com/aws/aws-sdk-go/aws/csm-v1.15.1 v1.15.1

1.506 github.com/aws/aws-sdk-go/aws/defaults-v1.15.1 v1.15.1

1.507 [github.com/aws/aws-sdk-go/aws/ec2metadata-v1.15.1](https://github.com/aws/aws-sdk-go/tree/master/aws/ec2metadata) v1.15.1

1.508 [github.com/aws/aws-sdk-go/aws/endpoints-v1.15.1](https://github.com/aws/aws-sdk-go/tree/master/aws/endpoints) v1.15.1

1.509 [github.com/aws/aws-sdk-go/aws/request-v1.15.1](https://github.com/aws/aws-sdk-go/tree/master/aws/request) v1.15.1

1.510 [github.com/aws/aws-sdk-go/aws/session-v1.15.1](https://github.com/aws/aws-sdk-go/tree/master/aws/session) v1.15.1

1.511 [github.com/aws/aws-sdk-go/aws/signer/v4-v1.15.1](https://github.com/aws/aws-sdk-go/tree/master/aws/signer/v4) v1.15.1

1.512 [github.com/aws/aws-sdk-go/awstesting-v1.15.1](https://github.com/aws/aws-sdk-go/tree/master/awstesting) v1.15.1

1.513 github.com/aws/aws-sdk-go-awstesting/mock-v1.15.1 v1.15.1

1.514 github.com/aws/aws-sdk-go-awstesting/unit-v1.15.1 v1.15.1

1.515 github.com/aws/aws-sdk-go-internal/sdkio-v1.15.1 v1.15.1

1.516 github.com/aws/aws-sdk-go-internal/sdkrand-v1.15.1 v1.15.1

1.517 github.com/aws/aws-sdk-go-internal/sdkkuri-v1.15.1 v1.15.1

1.518 github.com/aws/aws-sdk-go-internal/shareddefaults-v1.15.1 v1.15.1

1.519 github.com/aws/aws-sdk-go-private/protocol-v1.15.1 v1.15.1

1.520 github.com/aws/aws-sdk-go/private/protocol/ec2query-v1.15.1 v1.15.1

1.521 github.com/aws/aws-sdk-go/private/protocol/eventstream-v1.15.1 v1.15.1

1.522 github.com/aws/aws-sdk-go/private/protocol/eventstream/eventstreamapi-v1.15.1 v1.15.1

1.523 github.com/aws/aws-sdk-go/private/protocol/eventstream/eventstreamtest-v1.15.1 v1.15.1

1.524 github.com/aws/aws-sdk-go/private/protocol/jsonrpc-v1.15.1 v1.15.1

1.525 github.com/aws/aws-sdk-go/private/protocol/query-v1.15.1 v1.15.1

1.526 github.com/aws/aws-sdk-go/private/protocol/query/queryutil-v1.15.1 v1.15.1

1.527 github.com/aws/aws-sdk-go/private/protocol/rest-v1.15.1 v1.15.1

1.528 github.com/aws/aws-sdk-go/private/protocol/restjson-v1.15.1 v1.15.1

1.529 github.com/aws/aws-sdk-go/private/protocol/restxml-v1.15.1 v1.15.1

1.530 github.com/aws/aws-sdk-go/private/protocol/xml/xmlutil-v1.15.1 v1.15.1

**1.531 github.com/aws/aws-sdk-go/service/s3-
v1.15.1 v1.15.1**

**1.532 [github.com/aws/aws-sdk-
go/service/s3/s3iface](https://github.com/aws/aws-sdk-go/service/s3/s3iface)-v1.15.1 v1.15.1**

**1.533 [github.com/aws/aws-sdk-
go/service/s3/s3manager](https://github.com/aws/aws-sdk-go/service/s3/s3manager)-v1.15.1 v1.15.1**

**1.534 [github.com/aws/aws-sdk-
go/service/sts](https://github.com/aws/aws-sdk-go/service/sts)-v1.15.1 v1.15.1**

**1.535 github.com/beorn7/perks/quantile-
v1.0.1 v1.0.1**

**1.536 github.com/davecgh/go-spew/spew-
v1.1.0 v1.1.0**

**1.537 github.com/davecgh/go-spew/spew-
v1.1.1 v1.1.1**

**1.538 github.com/erggo/datafiller-
26c75631fdca2e4b6e72f78406a4c368f9fe433e
26c75631fdca2e4b6e72f78406a4c368f9fe433e**

**1.539 github.com/fatih/camelcase-v1.0.0
v1.0.0**

**1.540 github.com/fsnotify/fsnotify-v1.4.7
v1.4.7**

**1.541 github.com/globalsign/mgo/bson-
eeefdecb41b842af6dc652aaea4026e8403e62d
f
eeefdecb41b842af6dc652aaea4026e8403e62d
f**

1.542

**github.com/globalsign/mgo/internal/json-
eeefdecb41b842af6dc652aaea4026e8403e62d
f**

**eeefdecb41b842af6dc652aaea4026e8403e62d
f**

1.543 github.com/go-chi/chi-v3.3.4 v3.3.4

1.544 github.com/go-ini/ini-v1.38.1 v1.38.1

**1.545 github.com/go-openapi/analysis-v0.19.7
v0.19.7**

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1.552 [github.com/go-openapi/runtime-](https://github.com/go-openapi/runtime-v0.19.11) v0.19.11 v0.19.11

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1.553 github.com/go-openapi/spec-v0.19.6

v0.19.6

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```
package spec
```

```
import (
```

```
    "encoding/json"
```

```
    "github.com/go-openapi/swag"
```

```
)
```

```

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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package spec

import (

```

```

"encoding/json"
"testing"

"github.com/stretchr/testify/assert"
)

var license = License{
LicenseProps: LicenseProps{Name: "the name", URL: "the url"},
VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `{
"name": "the name",
"url": "the url",
"x-license": "custom term"
}`

func TestIntegrationLicense(t *testing.T) {

const licenseYAML = "name: the name\nurl: the url\n"

b, err := json.MarshalIndent(license, "", "\t")
if assert.NoError(t, err) {
assert.Equal(t, licenseJSON, string(b))
}

actual := License{}
err = json.Unmarshal([]byte(licenseJSON), &actual)
if assert.NoError(t, err) {
assert.EqualValues(t, license, actual)
}
}

```

1.554 [github.com/go-openapi/strfmt-0.16.0](https://github.com/go-openapi/strfmt)

0.16.0

1.555 [github.com/go-openapi/strfmt-v0.19.4](https://github.com/go-openapi/strfmt)

v0.19.4

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**1.556 github.com/go-openapi/swag-0.16.0
0.16.0**

**1.557 github.com/go-openapi/validate-0.16.0
0.16.0**

1.558 github.com/go-stack/stack-v1.8.0 v1.8.0

1.559 github.com/gobuffalo/envy-v1.7.0 v1.7.0

**1.560 github.com/gobuffalo/genny-v0.1.1
v0.1.1**

**1.561 github.com/gobuffalo/gogen-v0.1.1
v0.1.1**

**1.562 [github.com/gobuffalo/gogen/goimports-](https://github.com/gobuffalo/gogen/goimports-v0.1.1)
v0.1.1 v0.1.1**

**1.563 [github.com/gobuffalo/gogen/gomods-](https://github.com/gobuffalo/gogen/gomods-v0.1.1)
v0.1.1 v0.1.1**

**1.564 github.com/gobuffalo/logger-v1.0.0
v1.0.0**

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1.565 github.com/gobuffalo/mapi-v1.0.2 v1.0.2

**1.566 github.com/gobuffalo/packd-v0.1.0
v0.1.0**

**1.567 github.com/gobuffalo/packr/v2-v2.2.0
v2.2.0**

**1.568 [github.com/gobuffalo/packr/v2/file-
v2.2.0](https://github.com/gobuffalo/packr/v2/file-v2.2.0) v2.2.0**

**1.569
[github.com/gobuffalo/packr/v2/file/resolver-
v2.2.0](https://github.com/gobuffalo/packr/v2/file/resolver-v2.2.0) v2.2.0**

**1.570
[github.com/gobuffalo/packr/v2/file/resolver/e
ncoding/hex-v2.2.0](https://github.com/gobuffalo/packr/v2/file/resolver/encoding/hex-v2.2.0) v2.2.0**

1.571

**github.com/gobuffalo/packr/v2/jam/parser-
v2.2.0 v2.2.0**

**1.572 github.com/gobuffalo/packr/v2/plog-
v2.2.0 v2.2.0**

**1.573 github.com/gobuffalo/syncx-v0.1.0
v0.1.0**

**1.574 github.com/golang/protobuf/proto-
v1.3.3
d23c5127dc24889085f8ccea5c9d560a57a879d
8**

**1.575 github.com/golang/protobuf/ptypes-
v1.3.3
d23c5127dc24889085f8ccea5c9d560a57a879d
8**

1.576

[github.com/golang/protobuf/pkgs/container/any-](https://github.com/golang/protobuf/pkgs/container/any-v1.3.3)

[v1.3.3](https://github.com/golang/protobuf/pkgs/container/any-v1.3.3)

[d23c5127dc24889085f8ccea5c9d560a57a879d](https://github.com/golang/protobuf/pkgs/container/any-v1.3.3)

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1.577

[github.com/golang/protobuf/pkgs/container/duration-](https://github.com/golang/protobuf/pkgs/container/duration-v1.3.3)

[v1.3.3](https://github.com/golang/protobuf/pkgs/container/duration-v1.3.3)

[d23c5127dc24889085f8ccea5c9d560a57a879d](https://github.com/golang/protobuf/pkgs/container/duration-v1.3.3)

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1.578

[github.com/golang/protobuf/pkgs/container/timestam](https://github.com/golang/protobuf/pkgs/container/timestamp-v1.3.3)

[p-v1.3.3](https://github.com/golang/protobuf/pkgs/container/timestamp-v1.3.3)

[d23c5127dc24889085f8ccea5c9d560a57a879d](https://github.com/golang/protobuf/pkgs/container/timestamp-v1.3.3)

8

1.579 github.com/golang/snappy-v0.0.1 v0.0.1

1.580

github.com/golang/text/internal/language-v0.3.2 v0.3.2

1.581

github.com/golang/text/internal/language/compact-v0.3.2 v0.3.2

1.582 github.com/google/go-cmp/cmp-v0.2.0 v0.2.0

1.583 github.com/google/go-cmp/cmp/internal/diff-v0.2.0 v0.2.0

1.584 github.com/google/go-cmp/cmp/internal/function-v0.2.0 v0.2.0

1.585 github.com/google/google-cmp/cmp/internal/value-v0.2.0 v0.2.0

1.586 [github.com/google/uuid-1.0.0](https://github.com/google/google-uuid-1.0.0) 1.0.0

1.587 github.com/gorilla/context-v1.1.1 v1.1.1

1.588 github.com/gorilla/mux-v1.6.2 v1.6.2

1.589 github.com/gorilla/mux-v1.7.3 v1.7.3

1.590 github.com/hashicorp/hcl-v1.0.0 v1.0.0

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**1.591 github.com/hashicorp/hcl/hcl/ast-v1.0.0
v1.0.0**

**1.592 [github.com/hashicorp/hcl/hcl/parser-](https://github.com/hashicorp/hcl/hcl/parser-v1.0.0)
v1.0.0 v1.0.0**

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v1.0.0 v1.0.0**

**1.594 [github.com/hashicorp/hcl/hcl/scanner-](https://github.com/hashicorp/hcl/hcl/scanner-v1.0.0)
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**1.595 [github.com/hashicorp/hcl/hcl/strconv-](https://github.com/hashicorp/hcl/hcl/strconv-v1.0.0)
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**1.596 [github.com/hashicorp/hcl/hcl/token-](https://github.com/hashicorp/hcl/hcl/token-v1.0.0)
v1.0.0 v1.0.0**

**1.597 github.com/hashicorp/hcl/json/parser-
v1.0.0 v1.0.0**

**1.598 github.com/hashicorp/hcl/json/scanner-
v1.0.0 v1.0.0**

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v1.0.0 v1.0.0**

**1.600 github.com/jlaffaye/ftp-
2403248fa8cc9f7909862627aa7337f13f8e0bf1
2403248fa8cc9f7909862627aa7337f13f8e0bf1**

**1.601 github.com/jmespath/go-jmespath
c2b33e8439af944379acbddd9c3a5fe0bc44bd8a
5**

1.602 github.com/joho/godotenv-v1.3.0 v1.3.0

**1.603 github.com/karrick/godirwalk-v1.10.3
v1.10.3**

**1.604 [github.com/klauspost/compress/fse-](https://github.com/klauspost/compress/fse-v1.9.5)
v1.9.5 v1.9.5**

**1.605 [github.com/klauspost/compress/huff0-](https://github.com/klauspost/compress/huff0-v1.9.5)
v1.9.5 v1.9.5**

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**[github.com/klauspost/compress/snappy-](https://github.com/klauspost/compress/snappy-v1.9.5)
v1.9.5 v1.9.5**

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```
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```

```
Damian Gryski <dgryski@gmail.com>
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Kai Backman <kaib@golang.org>
Marc-Antoine Ruel <maruel@chromium.org>
Nigel Tao <nigeltao@golang.org>
Rob Pike <r@golang.org>
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Russ Cox <rsc@golang.org>
Sebastien Binet <seb.binet@gmail.com>
```

1.607 github.com/klauspost/compress/zstd-v1.9.5 v1.9.5

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1.608

github.com/klauspost/compress/zstd/internal/xxhash-v1.9.5 v1.9.5

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1.609 github.com/konsorten/go-windows-terminal-sequences-v1.0.2 v1.0.2

1.610 github.com/kr/pretty-v0.1.0 v0.1.0

1.611 github.com/kr/text-v0.1.0 v0.1.0

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99274577be97ac9b1d95a2d61d566dc9b7cc6a54

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99274577be97ac9b1d95a2d61d566dc9b7cc6a54

1.614 github.com/magiconair/properties-v1.8.0 v1.8.0

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v1.8.1 v1.8.1**

**1.618 github.com/mailru/easyjson/buffer-
v0.7.0 v0.7.0**

**1.619 github.com/mailru/easyjson/jlexer-
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**1.620 github.com/mailru/easyjson/jwriter-
v0.7.0 v0.7.0**

**1.621 github.com/markbates/oncer
74cf68f7e72ed26f7a701d975dbcee92cd324cb
b**

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**1.622 github.com/markbates/safe-v1.0.1
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**1.623
github.com/matttproud/golang_protobuf_extensions/pbutil-v1.0.1 v1.0.1**

**1.624 github.com/mitchellh/mapstructure-v1.1.2
v1.1.2 v1.1.2**

**1.625 github.com/montanaflynn/stats-0.3.0
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**1.626 [github.com/pallinder/go-randomdata-](https://github.com/pallinder/go-randomdata)
[v1.2.0](#) [v1.2.0](#)**

**1.627 [github.com/pelletier/go-toml-v1.4.0](https://github.com/pelletier/go-toml)
[728039f679cbcd4f6a54e080d2219a4c4928c54](#)
[6](#)**

**1.628 [github.com/pelletier/go-toml-v1.5.0](https://github.com/pelletier/go-toml)
[8fe62057ea2d46ce44254c98e84e810044dbe19](#)
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1.629 [github.com/pkg/errors-v0.8.1](https://github.com/pkg/errors) [v0.8.1](#)

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[v1.0.0](#) [v1.0.0](#)**

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**[github.com/prometheus/client_golang/promet](https://github.com/prometheus/client_golang)
[heus-v1.1.0](#) [v1.1.0](#)**

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github.com/prometheus/client_golang/prometheus/internal-v1.1.0 v1.1.0

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limitations under the License.
procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.639

**[github.com/prometheus/procfs/internal/fs-](https://github.com/prometheus/procfs/internal/fs-v0.0.8)
v0.0.8 v0.0.8**

1.640

**[github.com/prometheus/procfs/internal/util-](https://github.com/prometheus/procfs/internal/util-v0.0.8)
v0.0.8
6d489fc7f1d9cd890a250f3ea3431b1744b9623f**

**1.641 github.com/puerkitobio/purell-v1.1.1
v1.1.1**

**1.642 [github.com/puerkitobio/urlesc-](https://github.com/puerkitobio/urlesc-de5bf2ad457846296e2031421a34e2568e304e35)
de5bf2ad457846296e2031421a34e2568e304e3
5**

**de5bf2ad457846296e2031421a34e2568e304e3
5**

1.643 [github.com/rogpeppe/go-internal/modfile-v1.3.0](https://github.com/rogpeppe/go-internal/blob/v1.3.0/modfile-v1.3.0) v1.3.0

1.644 [github.com/rogpeppe/go-internal/module-v1.3.0](https://github.com/rogpeppe/go-internal/blob/v1.3.0/module-v1.3.0) v1.3.0

1.645 [github.com/rogpeppe/go-internal/semver-v1.3.0](https://github.com/rogpeppe/go-internal/blob/v1.3.0/semver-v1.3.0) v1.3.0

**1.646 [github.com/sirupsen/logrus-v1.4.2](https://github.com/sirupsen/logrus/blob/v1.4.2)
v1.4.2**

1.647 [github.com/spf13/afero-v1.2.2](https://github.com/spf13/afero/blob/v1.2.2) v1.2.2

**1.648 [github.com/spf13/afero/mem-v1.2.2](https://github.com/spf13/afero/blob/v1.2.2)
v1.2.2**

1.649 github.com/spf13/cast-v1.3.0 v1.3.0

1.650 github.com/spf13/jwalterweatherman-v1.1.0 v1.1.0

1.651 github.com/spf13/pflag-v1.0.5 v1.0.5

**1.652 github.com/spf13/viper-v1.4.0
b5bf975e5823809fb22c7644d008757f78a4259e**

**1.653 github.com/streadway/amqp-
e5adc2ada8b8efff032bf61173a233d143e9318e
e5adc2ada8b8efff032bf61173a233d143e9318e**

**1.654 github.com/stretchr/testify/assert-v1.3.0
v1.3.0**

**1.655 [github.com/stretchr/testify/require-](https://github.com/stretchr/testify/require)
v1.3.0 v1.3.0**

1.656 [github.com/tidwall/pretty-v1.0.0](https://github.com/tidwall/pretty) v1.0.0

**1.657 [github.com/xdg/scram-](https://github.com/xdg/scram)
7eeb5667e42c09cb51bf7b7c28aea8c56767da9
0
7eeb5667e42c09cb51bf7b7c28aea8c56767da9
0**

**1.658 github.com/xdg/stringprep
73f8eece6fdcd902c185bf651de50f3828bed5ed**

1.659 glob-7.1.2.tgz 7.1.2

1.660 glob-7.1.3.tgz 7.1.3

1.661 glob-7.1.4.tgz 7.1.4

1.662 glob-7.1.6.tgz 7.1.6

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1.663 global-dirs-0.1.1.tgz 0.1.1

1.664 globals-11.12.0.tgz 11.12.0

1.665 globals-12.3.0.tgz 12.3.0

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1.666 [globals-9.18.0.tgz](#) 9.18.0

1.667 [go.mongodb.org/mongo-driver/bson-v1.3.0](#) v1.3.0

1.668 [go.mongodb.org/mongo-driver/bson/bsoncodec-v1.3.0](#) v1.3.0

1.669 [go.mongodb.org/mongo-driver/bson/bsonoptions-v1.3.0](#) v1.3.0

1.670 go.mongodb.org/mongo-driver/bson/bsonrw-v1.3.0 v1.3.0

1.671 go.mongodb.org/mongo-driver/bson/bsontype-v1.3.0 v1.3.0

1.672 go.mongodb.org/mongo-driver/bson/primitive-v1.3.0 v1.3.0

1.673 go.mongodb.org/mongo-driver/x/bsonx/bsoncore-v1.3.0 v1.3.0

**1.674 golang.org/x/crypto/curve25519-56440b844dfe139a8ac053f4ecac0b20b79058f4
[56440b844dfe139a8ac053f4ecac0b20b79058f4](https://golang.org/x/crypto/curve25519-56440b844dfe139a8ac053f4ecac0b20b79058f4)**

**1.675 golang.org/x/crypto/ed25519-56440b844dfe139a8ac053f4ecac0b20b79058f4
[56440b844dfe139a8ac053f4ecac0b20b79058f4](https://golang.org/x/crypto/ed25519-56440b844dfe139a8ac053f4ecac0b20b79058f4)**

56440b844dfe139a8ac053f4ecac0b20b79058f4

1.676

**golang.org/x/crypto/ed25519/internal/edwards
25519-**

56440b844dfe139a8ac053f4ecac0b20b79058f4

56440b844dfe139a8ac053f4ecac0b20b79058f4

1.677 golang.org/x/crypto/internal/chacha20

56440b844dfe139a8ac053f4ecac0b20b79058f4

1.678 golang.org/x/crypto/internal/subtle-

56440b844dfe139a8ac053f4ecac0b20b79058f4

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1.679 golang.org/x/crypto/pbkdf2-20be4c3c3ed52bfccdb2d59a412ee1a936d175a7
20be4c3c3ed52bfccdb2d59a412ee1a936d175a7

1.680 golang.org/x/crypto/pbkdf2-56440b844dfe139a8ac053f4ecac0b20b79058f4
56440b844dfe139a8ac053f4ecac0b20b79058f4

1.681 golang.org/x/crypto/poly1305-c126467f60eb25f8f27e5a981f32a87e3965053f
c126467f60eb25f8f27e5a981f32a87e3965053f

1.682 golang.org/x/crypto/ssh-56440b844dfe139a8ac053f4ecac0b20b79058f4
56440b844dfe139a8ac053f4ecac0b20b79058f4

**1.683 golang.org/x/crypto/ssh/terminal-
20be4c3c3ed52bfccdb2d59a412ee1a936d175
a7**

**20be4c3c3ed52bfccdb2d59a412ee1a936d175
a7**

**1.684 golang.org/x/crypto/ssh/terminal-
56440b844dfe139a8ac053f4ecac0b20b79058f4
56440b844dfe139a8ac053f4ecac0b20b79058f4**

**1.685 golang.org/x/crypto/ssh/testdata
56440b844dfe139a8ac053f4ecac0b20b79058f4**

**1.686 golang.org/x/net/context-
60506f45cf65977eb3a9c6e30f995f54a721c271
60506f45cf65977eb3a9c6e30f995f54a721c271**

**1.687 golang.org/x/net/idna-
16171245cfb220d5317888b716d69c1fb4e7992
b
16171245cfb220d5317888b716d69c1fb4e7992
b**

**1.688 golang.org/x/sync/semaphore-
112230192c580c3556b8cee6403af37a4fc5f28c
112230192c580c3556b8cee6403af37a4fc5f28c**

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1.689 golang.org/x/sys/unix-

3e7259c5e7c2076bb2728047a3df75adb1bad8e5

3e7259c5e7c2076bb2728047a3df75adb1bad8e5

1.690 golang.org/x/sys/unix-

4c3a928424d249a1013e789cf5e458d480bcba16

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1.691 golang.org/x/sys/windows-

4c3a928424d249a1013e789cf5e458d480bcba1

6

4c3a928424d249a1013e789cf5e458d480bcba1

6

1.692 golang.org/x/text/collate-v0.3.2 v0.3.2

1.693 golang.org/x/text/collate/build-v0.3.2
v0.3.2

1.694 golang.org/x/text/encoding-v0.3.0 v0.3.0

1.695 [golang.org/x/text/encoding/charmap-](https://golang.org/x/text/encoding/charmap-v0.3.0)
v0.3.0 v0.3.0

1.696 [golang.org/x/text/encoding/internal-](https://golang.org/x/text/encoding/internal-v0.3.0)
v0.3.0 v0.3.0

1.697

[golang.org/x/text/encoding/internal/identifier-](https://golang.org/x/text/encoding/internal/identifier-v0.3.0)
v0.3.0 v0.3.0

**1.698 golang.org/x/text/encoding/unicode-
[v0.3.0](https://golang.org/x/text/encoding/unicode-) [v0.3.0](https://golang.org/x/text/encoding/unicode-)**

**1.699 golang.org/x/text/internal/coltab-
[v0.3.2](https://golang.org/x/text/internal/coltab-)**

**1.700 golang.org/x/text/internal/gen-
[v0.3.0](https://golang.org/x/text/internal/gen-)**

**1.701 golang.org/x/text/internal/gen-
[v0.3.2](https://golang.org/x/text/internal/gen-)**

**1.702 golang.org/x/text/internal/tag-
[v0.3.2](https://golang.org/x/text/internal/tag-)**

**1.703 golang.org/x/text/internal/triegen-
[v0.3.2](https://golang.org/x/text/internal/triegen-)**

**1.704 golang.org/x/text/internal/ucd-v0.3.2
v0.3.2**

**1.705 [golang.org/x/text/internal/utf8internal-](https://golang.org/x/text/internal/utf8internal-v0.3.0)
v0.3.0 v0.3.0**

1.706 golang.org/x/text/language-v0.3.2 v0.3.2

1.707 golang.org/x/text/runes-v0.3.0 v0.3.0

**1.708 golang.org/x/text/secure/bidirule-v0.3.2
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**1.709 golang.org/x/text/transform-v0.3.0
v0.3.0**

**1.710 golang.org/x/text/transform-v0.3.2
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**1.711 golang.org/x/text/unicode/bidi-v0.3.2
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**1.712 golang.org/x/text/unicode/cldr-v0.3.0
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**1.713 golang.org/x/text/unicode/cldr-v0.3.2
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**1.714 golang.org/x/text/unicode/norm-v0.3.2
v0.3.2**

**1.715 [golang.org/x/text/unicode/rangetable-](https://golang.org/x/text/unicode/rangetable-v0.3.2)
v0.3.2 v0.3.2**

1.716 golang.org/x/text/width-v0.3.2 v0.3.2

**1.717 [golang.org/x/tools/go/ast/astutil-](https://golang.org/x/tools/go/ast/astutil-gopls/v0.1.0)
gopls/v0.1.0 gopls/v0.1.0**

1.718 golang.org/x/tools/go/gcexportdata-gopls/v0.1.0 [gopls/v0.1.0](https://golang.org/x/tools/go/gopls/v0.1.0)

1.719

**golang.org/x/tools/go/internal/gcimporter
[d4e310b4a8a5f0fe33e0a7e813a14ff19b433da4](https://golang.org/x/tools/go/internal/gcimporter)**

1.720

**golang.org/x/tools/go/internal/packagesdriver
[d4e310b4a8a5f0fe33e0a7e813a14ff19b433da4](https://golang.org/x/tools/go/internal/packagesdriver)**

**1.721 golang.org/x/tools/go/packages
[d4e310b4a8a5f0fe33e0a7e813a14ff19b433da4](https://golang.org/x/tools/go/packages)**

1.722 golang.org/x/tools/go/types/typeutil-gopls/v0.1.0 [gopls/v0.1.0](https://golang.org/x/tools/go/types/typeutil-gopls/v0.1.0)

**1.723 golang.org/x/tools/imports-gopls/v0.1.0
[gopls/v0.1.0](https://golang.org/x/tools/imports-gopls/v0.1.0)**

1.724 golang.org/x/tools/internal/fastwalk-gopls/v0.1.0 [gopls/v0.1.0](https://golang.org/x/tools/internal/fastwalk-gopls/v0.1.0)

1.725 golang.org/x/tools/internal/gopathwalk-d4e310b4a8a5f0fe33e0a7e813a14ff19b433da4

1.726 golang.org/x/tools/internal/imports-d4e310b4a8a5f0fe33e0a7e813a14ff19b433da4

1.727 golang.org/x/tools/internal/module-d4e310b4a8a5f0fe33e0a7e813a14ff19b433da4

1.728 golang.org/x/tools/internal/semver-gopls/v0.1.0 gopls/v0.1.0

1.729 good-listener-1.2.2.tgz 1.2.2

1.730 google-api-client-1.20.0.jar 1.20.0

1.731 google-api-client-1.25.0.jar 1.25.0

1.732 google-api-client-1.28.0.jar 1.28.0

1.733 google-api-services-cloudbilling-v1-rev32-1.25.0.jar v1-rev32-1.25.0

1.734 google-api-services-cloudresourcemanager-v1-rev544-1.25.0.jar v1-rev544-1.25.0

1.735 google-api-services-cloudresourcemanager-v2-rev32-1.25.0.jar v2-

rev32-1.25.0

**1.736 google-api-services-compute-v1-
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**1.737 google-api-services-drive-v2-rev253-
1.20.0.jar v2-rev253-1.20.0**

**1.738 google-api-services-sqladmin-v1beta4-
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**1.739 google-api-services-storage-v1-rev153-
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**1.740 google-auth-library-credentials-
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1.742 google-cloud-core-1.70.0.jar 1.70.0

1.743 google-cloud-core-grpc-1.70.0.jar 1.70.0

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1.745 google-http-client-1.17.0-rc.jar 1.17.0-rc

1.746 google-http-client-1.20.0.jar 1.20.0

1.747 google-http-client-1.25.0.jar 1.25.0

1.748 google-http-client-1.29.0.jar 1.29.0

1.749 google-http-client-1.29.2.jar 1.29.2

1.750 google-http-client-apache-2.0.0.jar 2.0.0

1.751 google-http-client-jackson-1.29.2.jar
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1.757 google-oauth-client-1.25.0.jar 1.25.0

1.758 google-oauth-client-1.28.0.jar 1.28.0

1.759 gopkg.in/mgo.v2

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1.760 gopkg.in/mgo.v2/bson-

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1.761 gopkg.in/mgo.v2/internal/json-

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1.764 gopkg.in/natefinch/lumberjack.v2-v2.1

v2.1

1.765 gopkg.in/robfig/cron.v2

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1.766 gopkg.in/yaml.v2-v2.2.4

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5

1.767 gopkg.in/yaml.v2-v2.2.8 v2.2.8

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1.772 grpc-context-1.19.0.jar 1.19.0

1.773 grpc-core-1.19.0.jar 1.19.0

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1.775 grpc-netty-shaded-1.19.0.jar 1.19.0

1.776 grpc-protobuf-1.19.0.jar 1.19.0

1.777 grpc-protobuf-lite-1.19.0.jar 1.19.0

1.778 grpc-stub-1.19.0.jar 1.19.0

1.779 gson-2.8.5.jar 2.8.5

1.780 gson-fire-1.8.3.jar 1.8.3

1.781 guacamole-client 0.9.8

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```

```
package org.glyptodon.guacamole.net.auth.permission;
```

```
import java.util.Collection;
import java.util.Set;
import org.glyptodon.guacamole.GuacamoleException;
```

```
/**
 * A set of permissions which affect arbitrary objects, where each object has
 * an associated unique identifier.
 *
 * @author Michael Jumper
 */
public interface ObjectPermissionSet extends PermissionSet<ObjectPermission> {

```

```

/**
 * Tests whether the permission of the given type is granted for the
 * object having the given identifier.
 *
 * @param permission
 *     The permission to check.
 *
 * @param identifier
 *     The identifier of the object affected by the permission being
 *     checked.
 *
 * @return
 *     true if the permission is granted, false otherwise.

```

```

*
* @throws GuacamoleException
*   If an error occurs while checking permissions, or if permissions
*   cannot be checked due to lack of permissions to do so.
*/
boolean hasPermission(ObjectPermission.Type permission,
    String identifier) throws GuacamoleException;

/**
 * Adds the specified permission for the object having the given
 * identifier.
 *
 * @param permission
 *   The permission to add.
 *
 * @param identifier
 *   The identifier of the object affected by the permission being
 *   added.
 *
 * @throws GuacamoleException
 *   If an error occurs while adding the permission, or if permission to
 *   add permissions is denied.
 */
void addPermission(ObjectPermission.Type permission,
    String identifier) throws GuacamoleException;

/**
 * Removes the specified permission for the object having the given
 * identifier.
 *
 * @param permission
 *   The permission to remove.
 *
 * @param identifier
 *   The identifier of the object affected by the permission being
 *   added.
 *
 * @throws GuacamoleException
 *   If an error occurs while removing the permission, or if permission
 *   to remove permissions is denied.
 */
void removePermission(ObjectPermission.Type permission,
    String identifier) throws GuacamoleException;

/**
 * Tests whether this user has the specified permissions for the objects
 * having the given identifiers. The identifier of an object is returned
 * in a new collection if at least one of the specified permissions is

```

```

* granted for that object.
*
* @param permissions
*   The permissions to check. An identifier will be included in the
*   resulting collection if at least one of these permissions is granted
*   for the associated object
*
* @param identifiers
*   The identifiers of the objects affected by the permissions being
*   checked.
*
* @return
*   A collection containing the subset of identifiers for which at least
*   one of the specified permissions is granted.
*
* @throws GuacamoleException
*   If an error occurs while checking permissions, or if permissions
*   cannot be checked due to lack of permissions to do so.
*/
Collection<String> getAccessibleObjects(
    Collection<ObjectPermission.Type> permissions,
    Collection<String> identifiers) throws GuacamoleException;

@Override
Set<ObjectPermission> getPermissions()
    throws GuacamoleException;

@Override
void addPermissions(Set<ObjectPermission> permissions)
    throws GuacamoleException;

@Override
void removePermissions(Set<ObjectPermission> permissions)
    throws GuacamoleException;

}
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*/
```

```
package org.glyptodon.guacamole.net.auth.permission;
```

```
/**
 * A permission which affects the system as a whole, rather than an individual
 * object.
 *
 * @author Michael Jumper
 */
public class SystemPermission implements Permission<SystemPermission.Type> {
```

```
    /**
     * Specific types of system-level permissions. Each permission type is
     * related to a specific class of system-level operation.
     */
```

```
    public enum Type {
```

```
        /**
         * Create users.
         */
        CREATE_USER,
```

```
        /**
         * Create connections.
         */
        CREATE_CONNECTION,
```

```
        /**
         * Create connection groups.
         */
        CREATE_CONNECTION_GROUP,
```

```
        /**
         * Administer the system in general, including adding permissions
         * which affect the system (like user creation, connection creation,
         * and system administration).
         */
        ADMINISTER
```

```

}

/**
 * The type of operation affected by this permission.
 */
private Type type;

/**
 * Creates a new SystemPermission with the given
 * type.
 *
 * @param type The type of operation controlled by this permission.
 */
public SystemPermission(Type type) {
    this.type = type;
}

@Override
public Type getType() {
    return type;
}

@Override
public int hashCode() {
    return type.hashCode();
}

@Override
public boolean equals(Object obj) {

    // Not equal if null or wrong type
    if (obj == null) return false;
    if (getClass() != obj.getClass()) return false;

    final SystemPermission other = (SystemPermission) obj;

    // Compare types
    if (type != other.type)
        return false;

    return true;
}

}
/**
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 */

```

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*/

```

```
package org.glyptodon.guacamole.net.auth.permission;
```

```

/**
 * A permission which affects a specific object, rather than the system as a
 * whole.
 *
 * @author Michael Jumper
 */
public class ObjectPermission implements Permission<ObjectPermission.Type> {

    /**
     * Specific types of object-level permissions. Each permission type is
     * related to a specific class of object-level operation.
     */
    public enum Type {

        /**
         * Read data within an object.
         */
        READ,

        /**
         * Update data within an object.
         */
        UPDATE,

        /**
         * Delete an object.
         */

```

```

    */
    DELETE,

    /**
     * Change who has access to an object.
     */
    ADMINISTER

}

/**
 * The identifier of the GuacamoleConfiguration associated with the
 * operation affected by this permission.
 */
private final String identifier;

/**
 * The type of operation affected by this permission.
 */
private final Type type;

/**
 * Creates a new ObjectPermission having the given type and identifier.
 * The identifier must be the unique identifier assigned to the object
 * associated with this permission by the AuthenticationProvider in use.
 *
 * @param type
 *     The type of operation affected by this permission.
 *
 * @param identifier
 *     The identifier of the object associated with the operation affected
 *     by this permission.
 */
public ObjectPermission(Type type, String identifier) {

    this.identifier = identifier;
    this.type = type;

}

/**
 * Returns the identifier of the specific object affected by this
 * permission.
 *
 * @return The identifier of the specific object affected by this
 *     permission.
 */
public String getObjectIdentifier() {

```

```

    return identifier;
}

@Override
public Type getType() {
    return type;
}

@Override
public int hashCode() {
    int hash = 5;
    if (identifier != null) hash = 47 * hash + identifier.hashCode();
    if (type != null)    hash = 47 * hash + type.hashCode();
    return hash;
}

@Override
public boolean equals(Object obj) {

    // Not equal if null or wrong type
    if (obj == null) return false;
    if (getClass() != obj.getClass()) return false;

    final ObjectPermission other = (ObjectPermission) obj;

    // Not equal if different type
    if (this.type != other.type)
        return false;

    // If null identifier, equality depends on whether other identifier
    // is null
    if (identifier == null)
        return other.identifier == null;

    // Otherwise, equality depends entirely on identifier
    return identifier.equals(other.identifier);

}

}
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*/

```

```
package org.glyptodon.guacamole.net.auth.permission;
```

```
import java.util.Set;
import org.glyptodon.guacamole.GuacamoleException;
```

```

/**
 * A set of permissions which affects the system as a whole.
 *
 * @author Michael Jumper
 */
public interface SystemPermissionSet extends PermissionSet<SystemPermission> {

    /**
     * Tests whether the permission of the given type is granted.
     *
     * @param permission
     *     The permission to check.
     *
     * @return
     *     true if the permission is granted, false otherwise.
     *
     * @throws GuacamoleException
     *     If an error occurs while checking permissions, or if permissions
     *     cannot be checked due to lack of permissions to do so.
     */
    boolean hasPermission(SystemPermission.Type permission)
        throws GuacamoleException;

    /**
     * Adds the specified permission.
     *
     * @param permission
     *     The permission to add.
     */
}

```

```

*
* @throws GuacamoleException
*   If an error occurs while adding the permission, or if permission to
*   add permissions is denied.
*/
void addPermission(SystemPermission.Type permission)
    throws GuacamoleException;

/**
* Removes the specified permission.
*
* @param permission
*   The permission to remove.
*
* @throws GuacamoleException
*   If an error occurs while removing the permission, or if permission
*   to remove permissions is denied.
*/
void removePermission(SystemPermission.Type permission)
    throws GuacamoleException;

@Override
Set<SystemPermission> getPermissions() throws GuacamoleException;

@Override
void addPermissions(Set<SystemPermission> permissions)
    throws GuacamoleException;

@Override
void removePermissions(Set<SystemPermission> permissions)
    throws GuacamoleException;

}
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```

```
*/
```

```
package org.glyptodon.guacamole.net.auth.permission;
```

```
/**
```

```
* A permission which affects a specific type of operation, where all available
* operation types are defined by an enumeration.
```

```
*
```

```
* @author Michael Jumper
```

```
* @param <Type> The enumeration of all available operation types that this
* permission can affect.
```

```
*/
```

```
public interface Permission<Type extends Enum> {
```

```
    /**
```

```
     * Returns the type of operation affected by this permission.
```

```
     * @return The type of operation affected by this permission.
```

```
    */
```

```
    public Type getType();
```

```
 }
```

```
 /**
```

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```
 *
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```

```
*/
```

```

package org.glyptodon.guacamole.net.auth.permission;

import java.util.Set;
import org.glyptodon.guacamole.GuacamoleException;

/**
 * An arbitrary set of permissions.
 *
 * @author Michael Jumper
 * @param <PermissionType>
 *     The type of permission stored within this PermissionSet.
 */
public interface PermissionSet<PermissionType extends Permission> {

    /**
     * Returns a Set which contains all permissions granted within this
     * permission set.
     *
     * @return
     *     A Set containing all permissions granted within this permission set.
     *
     * @throws GuacamoleException
     *     If an error occurs while retrieving permissions, or if permissions
     *     cannot be retrieved due to lack of permissions to do so.
     */
    Set<PermissionType> getPermissions() throws GuacamoleException;

    /**
     * Adds the specified permissions, if not already granted. If a specified
     * permission is already granted, no operation is performed regarding that
     * permission.
     *
     * @param permissions
     *     The permissions to add.
     *
     * @throws GuacamoleException
     *     If an error occurs while adding the permissions, or if permission to
     *     add permissions is denied.
     */
    void addPermissions(Set<PermissionType> permissions)
        throws GuacamoleException;

    /**
     * Removes each of the specified permissions, if granted. If a specified
     * permission is not granted, no operation is performed regarding that
     * permission.

```

```

*
* @param permissions
*   The permissions to remove.
*
* @throws GuacamoleException
*   If an error occurs while removing the permissions, or if permission
*   to remove permissions is denied.
*/
void removePermissions(Set<PermissionType> permissions)
    throws GuacamoleException;

}
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*/

/**
* Provides classes which describe the various permissions a Guacamole user
* can be granted.
*/
package org.glyptodon.guacamole.net.auth.permission;
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```

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- */

```
package org.glyptodon.guacamole.net.basic.rest.permission;
```

```
import java.util.EnumSet;
import java.util.HashMap;
import java.util.Map;
import java.util.Set;
import org.glyptodon.guacamole.GuacamoleException;
import org.glyptodon.guacamole.net.auth.User;
import org.glyptodon.guacamole.net.auth.permission.ObjectPermission;
import org.glyptodon.guacamole.net.auth.permission.ObjectPermissionSet;
import org.glyptodon.guacamole.net.auth.permission.SystemPermission;
import org.glyptodon.guacamole.net.auth.permission.SystemPermissionSet;
```

```
/**
 * The set of permissions which are granted to a specific user, organized by
 * object type and, if applicable, identifier. This object can be constructed
 * with arbitrary permissions present, or manipulated after creation through
 * the manipulation or replacement of its collections of permissions, but is
 * otherwise not intended for internal use as a data structure for permissions.
 * Its primary purpose is as a hierarchical format for exchanging granted
 * permissions with REST clients.
 */
```

```
public class APIPermissionSet {
```

```
    /**
     * Map of connection ID to the set of granted permissions.
     */
```

```
    private Map<String, Set<ObjectPermission.Type>> connectionPermissions =
        new HashMap<String, Set<ObjectPermission.Type>>();
```

```
    /**
     * Map of connection group ID to the set of granted permissions.
```

```

*/
private Map<String, Set<ObjectPermission.Type>> connectionGroupPermissions =
    new HashMap<String, Set<ObjectPermission.Type>>();

/**
 * Map of active connection ID to the set of granted permissions.
 */
private Map<String, Set<ObjectPermission.Type>> activeConnectionPermissions =
    new HashMap<String, Set<ObjectPermission.Type>>();

/**
 * Map of user ID to the set of granted permissions.
 */
private Map<String, Set<ObjectPermission.Type>> userPermissions =
    new HashMap<String, Set<ObjectPermission.Type>>();

/**
 * Set of all granted system-level permissions.
 */
private Set<SystemPermission.Type> systemPermissions =
    EnumSet.noneOf(SystemPermission.Type.class);

/**
 * Creates a new permission set which contains no granted permissions. Any
 * permissions must be added by manipulating or replacing the applicable
 * permission collection.
 */
public APIPermissionSet() {
}

/**
 * Adds the system permissions from the given SystemPermissionSet to the
 * Set of system permissions provided.
 *
 * @param permissions
 *     The Set to add system permissions to.
 *
 * @param permSet
 *     The SystemPermissionSet containing the system permissions to add.
 *
 * @throws GuacamoleException
 *     If an error occurs while retrieving system permissions from the
 *     SystemPermissionSet.
 */
private void addSystemPermissions(Set<SystemPermission.Type> permissions,
    SystemPermissionSet permSet) throws GuacamoleException {

    // Add all provided system permissions

```

```

        for (SystemPermission permission : permSet.getPermissions())
            permissions.add(permission.getType());

    }

    /**
     * Adds the object permissions from the given ObjectPermissionSet to the
     * Map of object permissions provided.
     *
     * @param permissions
     *     The Map to add object permissions to.
     *
     * @param permSet
     *     The ObjectPermissionSet containing the object permissions to add.
     *
     * @throws GuacamoleException
     *     If an error occurs while retrieving object permissions from the
     *     ObjectPermissionSet.
     */
    private void addObjectPermissions(Map<String, Set<ObjectPermission.Type>> permissions,
        ObjectPermissionSet permSet) throws GuacamoleException {

        // Add all provided object permissions
        for (ObjectPermission permission : permSet.getPermissions()) {

            // Get associated set of permissions
            String identifier = permission.getObjectIdentifier();
            Set<ObjectPermission.Type> objectPermissions = permissions.get(identifier);

            // Create new set if none yet exists
            if (objectPermissions == null)
                permissions.put(identifier, EnumSet.of(permission.getType()));

            // Otherwise add to existing set
            else
                objectPermissions.add(permission.getType());

        }

    }

    /**
     * Creates a new permission set containing all permissions currently
     * granted to the given user.
     *
     * @param user
     *     The user whose permissions should be stored within this permission
     *     set.
     */

```

```

*
* @throws GuacamoleException
*   If an error occurs while retrieving the user's permissions.
*/
public APIPermissionSet(User user) throws GuacamoleException {

    // Add all permissions from the provided user
    addSystemPermissions(systemPermissions,    user.getSystemPermissions());
    addObjectPermissions(connectionPermissions, user.getConnectionPermissions());
    addObjectPermissions(connectionGroupPermissions, user.getConnectionGroupPermissions());
    addObjectPermissions(activeConnectionPermissions, user.getActiveConnectionPermissions());
    addObjectPermissions(userPermissions,      user.getUserPermissions());

}

/**
 * Returns a map of connection IDs to the set of permissions granted for
 * that connection. If no permissions are granted to a particular
 * connection, its ID will not be present as a key in the map. This map is
 * mutable, and changes to this map will affect the permission set
 * directly.
 *
 * @return
 *   A map of connection IDs to the set of permissions granted for that
 *   connection.
 */
public Map<String, Set<ObjectPermission.Type>> getConnectionPermissions() {
    return connectionPermissions;
}

/**
 * Returns a map of connection group IDs to the set of permissions granted
 * for that connection group. If no permissions are granted to a particular
 * connection group, its ID will not be present as a key in the map. This
 * map is mutable, and changes to this map will affect the permission set
 * directly.
 *
 * @return
 *   A map of connection group IDs to the set of permissions granted for
 *   that connection group.
 */
public Map<String, Set<ObjectPermission.Type>> getConnectionGroupPermissions() {
    return connectionGroupPermissions;
}

/**
 * Returns a map of active connection IDs to the set of permissions granted
 * for that active connection. If no permissions are granted to a particular

```

```

* active connection, its ID will not be present as a key in the map. This
* map is mutable, and changes to this map will affect the permission set
* directly.
*
* @return
*   A map of active connection IDs to the set of permissions granted for
*   that active connection.
*/
public Map<String, Set<ObjectPermission.Type>> getActiveConnectionPermissions() {
    return activeConnectionPermissions;
}

/**
* Returns a map of user IDs to the set of permissions granted for that
* user. If no permissions are granted to a particular user, its ID will
* not be present as a key in the map. This map is mutable, and changes to
* to this map will affect the permission set directly.
*
* @return
*   A map of user IDs to the set of permissions granted for that user.
*/
public Map<String, Set<ObjectPermission.Type>> getUserPermissions() {
    return userPermissions;
}

/**
* Returns the set of granted system-level permissions. If no permissions
* are granted at the system level, this will be an empty set. This set is
* mutable, and changes to this set will affect the permission set
* directly.
*
* @return
*   The set of granted system-level permissions.
*/
public Set<SystemPermission.Type> getSystemPermissions() {
    return systemPermissions;
}

/**
* Replaces the current map of connection permissions with the given map,
* which must map connection ID to its corresponding set of granted
* permissions. If a connection has no permissions, its ID must not be
* present as a key in the map.
*
* @param connectionPermissions
*   The map which must replace the currently-stored map of permissions.
*/
public void setConnectionPermissions(Map<String, Set<ObjectPermission.Type>> connectionPermissions) {

```

```

        this.connectionPermissions = connectionPermissions;
    }

    /**
     * Replaces the current map of connection group permissions with the given
     * map, which must map connection group ID to its corresponding set of
     * granted permissions. If a connection group has no permissions, its ID
     * must not be present as a key in the map.
     *
     * @param connectionGroupPermissions
     *     The map which must replace the currently-stored map of permissions.
     */
    public void setConnectionGroupPermissions(Map<String, Set<ObjectPermission.Type>>
connectionGroupPermissions) {
        this.connectionGroupPermissions = connectionGroupPermissions;
    }

    /**
     * Replaces the current map of active connection permissions with the give
     * map, which must map active connection ID to its corresponding set of
     * granted permissions. If an active connection has no permissions, its ID
     * must not be present as a key in the map.
     *
     * @param activeConnectionPermissions
     *     The map which must replace the currently-stored map of permissions.
     */
    public void setActiveConnectionPermissions(Map<String, Set<ObjectPermission.Type>>
activeConnectionPermissions) {
        this.activeConnectionPermissions = activeConnectionPermissions;
    }

    /**
     * Replaces the current map of user permissions with the given map, which
     * must map user ID to its corresponding set of granted permissions. If a
     * user has no permissions, its ID must not be present as a key in the map.
     *
     * @param userPermissions
     *     The map which must replace the currently-stored map of permissions.
     */
    public void setUserPermissions(Map<String, Set<ObjectPermission.Type>> userPermissions) {
        this.userPermissions = userPermissions;
    }

    /**
     * Replaces the current set of system-level permissions with the given set.
     * If no system-level permissions are granted, the empty set must be
     * specified.
     */

```

```

* @param systemPermissions
*   The set which must replace the currently-stored set of permissions.
*/
public void setSystemPermissions(Set<SystemPermission.Type> systemPermissions) {
    this.systemPermissions = systemPermissions;
}

}
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/**
* Classes related to the permission manipulation aspect of the Guacamole REST API.
*/
package org.glyptodon.guacamole.net.basic.rest.permission;
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"
    "http://mybatis.org/dtd/mybatis-3-mapper.dtd" >

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```

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-->

```
<mapper namespace="org.glyptodon.guacamole.auth.jdbc.permission.UserPermissionMapper" >
```

```
<!-- Result mapper for user permissions -->
```

```
<resultMap id="UserPermissionResultMap"
type="org.glyptodon.guacamole.auth.jdbc.permission.ObjectPermissionModel">
  <result column="user_id"    property="userID"    jdbcType="INTEGER"/>
  <result column="username"   property="username"   jdbcType="VARCHAR"/>
  <result column="permission" property="type"      jdbcType="VARCHAR"
    javaType="org.glyptodon.guacamole.net.auth.permission.ObjectPermission$Type"/>
  <result column="affected_username" property="objectIdentifier" jdbcType="INTEGER"/>
</resultMap>
```

```
<!-- Select all permissions for a given user -->
```

```
<select id="select" resultMap="UserPermissionResultMap">
```

```
SELECT
  guacamole_user_permission.user_id,
  guacamole_user.username,
  permission,
  affected.username AS affected_username
FROM guacamole_user_permission
JOIN guacamole_user      ON guacamole_user_permission.user_id      = guacamole_user.user_id
JOIN guacamole_user affected ON guacamole_user_permission.affected_user_id = affected.user_id
WHERE guacamole_user_permission.user_id = #{user.objectID,jdbcType=INTEGER}
```

```
</select>
```

```
<!-- Select the single permission matching the given criteria -->
```

```
<select id="selectOne" resultMap="UserPermissionResultMap">
```

```
SELECT
  guacamole_user_permission.user_id,
  guacamole_user.username,
  permission,
  affected.username AS affected_username
FROM guacamole_user_permission
```

```

JOIN guacamole_user      ON guacamole_user_permission.user_id      = guacamole_user.user_id
JOIN guacamole_user affected ON guacamole_user_permission.affected_user_id = affected.user_id
WHERE
    guacamole_user_permission.user_id = #{user.objectID,jdbcType=INTEGER}
    AND permission = #{type,jdbcType=VARCHAR}
    AND affected.username = #{identifier,jdbcType=VARCHAR}

</select>

<!-- Select identifiers accessible by the given user for the given permissions -->
<select id="selectAccessibleIdentifiers" resultType="string">

    SELECT DISTINCT username
    FROM guacamole_user_permission
    JOIN guacamole_user ON guacamole_user_permission.affected_user_id = guacamole_user.user_id
    WHERE
        guacamole_user_permission.user_id = #{user.objectID,jdbcType=INTEGER}
        AND username IN
            <foreach collection="identifiers" item="identifier"
                open="(" separator="," close=")">
                #{identifier,jdbcType=VARCHAR}
            </foreach>
        AND permission IN
            <foreach collection="permissions" item="permission"
                open="(" separator="," close=")">
                #{permission,jdbcType=VARCHAR}
            </foreach>

</select>

<!-- Delete all given permissions -->
<delete id="delete" parameterType="org.glyptodon.guacamole.auth.jdbc.permission.ObjectPermissionModel">

    DELETE FROM guacamole_user_permission
    USING guacamole_user_permission
    JOIN guacamole_user affected ON guacamole_user_permission.affected_user_id = affected.user_id
    WHERE
        (guacamole_user_permission.user_id, permission, affected.username) IN
            <foreach collection="permissions" item="permission"
                open="(" separator="," close=")">
                ({permission.userID,jdbcType=INTEGER},
                #{permission.type,jdbcType=VARCHAR},
                #{permission.objectIdentifier,jdbcType=VARCHAR})
            </foreach>

</delete>

<!-- Insert all given permissions -->

```

```
<insert id="insert" parameterType="org.glyptodon.guacamole.auth.jdbc.permission.ObjectPermissionModel">
```

```
    INSERT IGNORE INTO guacamole_user_permission (
        user_id,
        permission,
        affected_user_id
    )
    SELECT permissions.user_id, permissions.permission, guacamole_user.user_id FROM
    <foreach collection="permissions" item="permission"
        open="(" separator="UNION ALL" close=")">
        SELECT #{permission.userID,jdbcType=INTEGER}      AS user_id,
            #{permission.type,jdbcType=VARCHAR}          AS permission,
            #{permission.objectIdentifier,jdbcType=VARCHAR} AS username
    </foreach>
    AS permissions
    JOIN guacamole_user ON guacamole_user.username = permissions.username;
```

```
</insert>
```

```
</mapper>
```

```
<?xml version="1.0" encoding="UTF-8" ?>
```

```
<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"
```

```
"http://mybatis.org/dtd/mybatis-3-mapper.dtd" >
```

```
<!--
```

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```
-->
```

```
<mapper namespace="org.glyptodon.guacamole.auth.jdbc.permission.ConnectionGroupPermissionMapper" >
```

```

<!-- Result mapper for connection permissions -->
<resultMap id="ConnectionGroupPermissionResultMap"
type="org.glyptodon.guacamole.auth.jdbc.permission.ObjectPermissionModel">
  <result column="user_id"      property="userID"      jdbcType="INTEGER"/>
  <result column="username"    property="username"    jdbcType="VARCHAR"/>
  <result column="permission"  property="type"        jdbcType="VARCHAR"
    javaType="org.glyptodon.guacamole.net.auth.permission.ObjectPermission$Type"/>
  <result column="connection_group_id" property="objectIdentifier" jdbcType="INTEGER"/>
</resultMap>

```

```

<!-- Select all permissions for a given user -->

```

```

<select id="select" resultMap="ConnectionGroupPermissionResultMap">

```

```

SELECT
  guacamole_connection_group_permission.user_id,
  username,
  permission,
  connection_group_id
FROM guacamole_connection_group_permission
JOIN guacamole_user ON guacamole_connection_group_permission.user_id = guacamole_user.user_id
WHERE guacamole_connection_group_permission.user_id = #{user.objectID,jdbcType=INTEGER}

```

```

</select>

```

```

<!-- Select the single permission matching the given criteria -->

```

```

<select id="selectOne" resultMap="ConnectionGroupPermissionResultMap">

```

```

SELECT
  guacamole_connection_group_permission.user_id,
  username,
  permission,
  connection_group_id
FROM guacamole_connection_group_permission
JOIN guacamole_user ON guacamole_connection_group_permission.user_id = guacamole_user.user_id
WHERE
  guacamole_connection_group_permission.user_id = #{user.objectID,jdbcType=INTEGER}
  AND permission = #{type,jdbcType=VARCHAR}
  AND connection_group_id = #{identifier,jdbcType=VARCHAR}

```

```

</select>

```

```

<!-- Select identifiers accessible by the given user for the given permissions -->

```

```

<select id="selectAccessibleIdentifiers" resultType="string">

```

```

SELECT DISTINCT connection_group_id
FROM guacamole_connection_group_permission
WHERE
  user_id = #{user.objectID,jdbcType=INTEGER}

```

```

AND connection_group_id IN
  <foreach collection="identifiers" item="identifier"
    open="(" separator="," close=")">
    #{identifier,jdbcType=VARCHAR}
  </foreach>
AND permission IN
  <foreach collection="permissions" item="permission"
    open="(" separator="," close=")">
    #{permission,jdbcType=VARCHAR}
  </foreach>

</select>

<!-- Delete all given permissions -->
<delete id="delete" parameterType="org.glyptodon.guacamole.auth.jdbc.permission.ObjectPermissionModel">

DELETE FROM guacamole_connection_group_permission
WHERE (user_id, permission, connection_group_id) IN
  <foreach collection="permissions" item="permission"
    open="(" separator="," close=")">
    (#{permission.userID,jdbcType=INTEGER},
    #{permission.type,jdbcType=VARCHAR},
    #{permission.objectIdentifier,jdbcType=VARCHAR})
  </foreach>

</delete>

<!-- Insert all given permissions -->
<insert id="insert" parameterType="org.glyptodon.guacamole.auth.jdbc.permission.ObjectPermissionModel">

INSERT IGNORE INTO guacamole_connection_group_permission (
  user_id,
  permission,
  connection_group_id
)
VALUES
  <foreach collection="permissions" item="permission" separator=",">
    (#{permission.userID,jdbcType=INTEGER},
    #{permission.type,jdbcType=VARCHAR},
    #{permission.objectIdentifier,jdbcType=VARCHAR})
  </foreach>

</insert>

</mapper>
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"
"http://mybatis.org/dtd/mybatis-3-mapper.dtd" >

```

<!--

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-->

```
<mapper namespace="org.glyptodon.guacamole.auth.jdbc.permission.ConnectionPermissionMapper" >
```

```
<!-- Result mapper for connection permissions -->
```

```
<resultMap id="ConnectionPermissionResultMap"
type="org.glyptodon.guacamole.auth.jdbc.permission.ObjectPermissionModel">
  <result column="user_id"    property="userID"    jdbcType="INTEGER"/>
  <result column="username"  property="username"  jdbcType="VARCHAR"/>
  <result column="permission" property="type"      jdbcType="VARCHAR"
      javaType="org.glyptodon.guacamole.net.auth.permission.ObjectPermission$Type"/>
  <result column="connection_id" property="objectIdentifier" jdbcType="INTEGER"/>
</resultMap>
```

```
<!-- Select all permissions for a given user -->
```

```
<select id="select" resultMap="ConnectionPermissionResultMap">
```

```
SELECT
  guacamole_connection_permission.user_id,
  username,
  permission,
  connection_id
FROM guacamole_connection_permission
JOIN guacamole_user ON guacamole_connection_permission.user_id = guacamole_user.user_id
WHERE guacamole_connection_permission.user_id = #{user.objectID,jdbcType=INTEGER}
```

```
</select>
```

```

<!-- Select the single permission matching the given criteria -->
<select id="selectOne" resultMap="ConnectionPermissionResultMap">

    SELECT
        guacamole_connection_permission.user_id,
        username,
        permission,
        connection_id
    FROM guacamole_connection_permission
    JOIN guacamole_user ON guacamole_connection_permission.user_id = guacamole_user.user_id
    WHERE
        guacamole_connection_permission.user_id = #{user.objectID,jdbcType=INTEGER}
        AND permission = #{type,jdbcType=VARCHAR}
        AND connection_id = #{identifier,jdbcType=VARCHAR}

</select>

<!-- Select identifiers accessible by the given user for the given permissions -->
<select id="selectAccessibleIdentifiers" resultType="string">

    SELECT DISTINCT connection_id
    FROM guacamole_connection_permission
    WHERE
        user_id = #{user.objectID,jdbcType=INTEGER}
        AND connection_id IN
            <foreach collection="identifiers" item="identifier"
                open="(" separator="," close=")">
                #{identifier,jdbcType=VARCHAR}
            </foreach>
        AND permission IN
            <foreach collection="permissions" item="permission"
                open="(" separator="," close=")">
                #{permission,jdbcType=VARCHAR}
            </foreach>

</select>

<!-- Delete all given permissions -->
<delete id="delete" parameterType="org.glyptodon.guacamole.auth.jdbc.permission.ObjectPermissionModel">

    DELETE FROM guacamole_connection_permission
    WHERE (user_id, permission, connection_id) IN
        <foreach collection="permissions" item="permission"
            open="(" separator="," close=")">
            (#{permission.userID,jdbcType=INTEGER},
            #{permission.type,jdbcType=VARCHAR},
            #{permission.objectIdentifier,jdbcType=VARCHAR})
        </foreach>

</delete>

```

```

    </foreach>

</delete>

<!-- Insert all given permissions -->
<insert id="insert" parameterType="org.glyptodon.guacamole.auth.jdbc.permission.ObjectPermissionModel">

    INSERT IGNORE INTO guacamole_connection_permission (
        user_id,
        permission,
        connection_id
    )
    VALUES
        <foreach collection="permissions" item="permission" separator=",">
            (#{permission.userID,jdbcType=INTEGER},
            #{permission.type,jdbcType=VARCHAR},
            #{permission.objectIdentifier,jdbcType=VARCHAR})
        </foreach>

</insert>

</mapper>
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"
    "http://mybatis.org/dtd/mybatis-3-mapper.dtd" >

<!--
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```

```

<mapper namespace="org.glyptodon.guacamole.auth.jdbc.permission.SystemPermissionMapper" >

  <!-- Result mapper for system permissions -->
  <resultMap id="SystemPermissionResultMap"
type="org.glyptodon.guacamole.auth.jdbc.permission.SystemPermissionModel">
    <result column="user_id" property="userID" jdbcType="INTEGER"/>
    <result column="username" property="username" jdbcType="VARCHAR"/>
    <result column="permission" property="type" jdbcType="VARCHAR"
        javaType="org.glyptodon.guacamole.net.auth.permission.SystemPermission$Type"/>
  </resultMap>

  <!-- Select all permissions for a given user -->
  <select id="select" resultMap="SystemPermissionResultMap">

    SELECT
      guacamole_system_permission.user_id,
      username,
      permission
    FROM guacamole_system_permission
    JOIN guacamole_user ON guacamole_system_permission.user_id = guacamole_user.user_id
    WHERE guacamole_system_permission.user_id = #{user.objectID,jdbcType=INTEGER}

  </select>

  <!-- Select the single permission matching the given criteria -->
  <select id="selectOne" resultMap="SystemPermissionResultMap">

    SELECT
      guacamole_system_permission.user_id,
      username,
      permission
    FROM guacamole_system_permission
    JOIN guacamole_user ON guacamole_system_permission.user_id = guacamole_user.user_id
    WHERE
      guacamole_system_permission.user_id = #{user.objectID,jdbcType=INTEGER}
      AND permission = #{type,jdbcType=VARCHAR}

  </select>

  <!-- Delete all given permissions -->
  <delete id="delete" parameterType="org.glyptodon.guacamole.auth.jdbc.permission.SystemPermissionModel">

    DELETE FROM guacamole_system_permission
    WHERE (user_id, permission) IN
      <foreach collection="permissions" item="permission"
        open="(" separator="," close=")">
        (#{permission.userID,jdbcType=INTEGER},
        #{permission.type,jdbcType=VARCHAR})
      </foreach>

  </delete>

```

```

    </foreach>

</delete>

<!-- Insert all given permissions -->
<insert id="insert" parameterType="org.glyptodon.guacamole.auth.jdbc.permission.SystemPermissionModel">

    INSERT IGNORE INTO guacamole_system_permission (
        user_id,
        permission
    )
    VALUES
        <foreach collection="permissions" item="permission" separator=",">
            ({permission.userID,jdbcType=INTEGER},
            {permission.type,jdbcType=VARCHAR})
        </foreach>

</insert>

</mapper>
/*
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 */

package org.glyptodon.guacamole.auth.jdbc.permission;

import java.util.Collection;
import org.glyptodon.guacamole.auth.jdbc.user.UserModel;
import org.apache.ibatis.annotations.Param;

```

```

/**
 * Generic base for mappers which handle permissions.
 *
 * @author Michael Jumper
 * @param <PermissionType>
 * The type of permission model object handled by this mapper.
 */
public interface PermissionMapper<PermissionType> {

    /**
     * Retrieves all permissions associated with the given user.
     *
     * @param user
     * The user to retrieve permissions for.
     *
     * @return
     * All permissions associated with the given user.
     */
    Collection<PermissionType> select(@Param("user") UserModel user);

    /**
     * Inserts the given permissions into the database. If any permissions
     * already exist, they will be ignored.
     *
     * @param permissions
     * The permissions to insert.
     *
     * @return
     * The number of rows inserted.
     */
    int insert(@Param("permissions") Collection<PermissionType> permissions);

    /**
     * Deletes the given permissions from the database. If any permissions do
     * not exist, they will be ignored.
     *
     * @param permissions
     * The permissions to delete.
     *
     * @return
     * The number of rows deleted.
     */
    int delete(@Param("permissions") Collection<PermissionType> permissions);

}
/**
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 */

```

```

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*/

```

```
package org.glyptodon.guacamole.auth.jdbc.permission;
```

```
import org.glyptodon.guacamole.net.auth.permission.ObjectPermission;
```

```
/**
```

```
* Object representation of an object-related Guacamole permission, as
* represented in the database.
```

```
*
```

```
* @author Michael Jumper
```

```
*/
```

```
public class ObjectPermissionModel extends PermissionModel<ObjectPermission.Type> {
```

```
/**
```

```
* The unique identifier of the object affected by this permission.
```

```
*/
```

```
private String objectIdentifier;
```

```
/**
```

```
* Creates a new, empty object permission.
```

```
*/
```

```
public ObjectPermissionModel() {
}
```

```
/**
```

```
* Returns the unique identifier of the object affected by this permission.
```

```
*
```

```
* @return
```

```
* The unique identifier of the object affected by this permission.
```

```
*/
```

```

public String getObjectIdentifier() {
    return objectIdentifier;
}

/**
 * Sets the unique identifier of the object affected by this permission.
 *
 * @param objectIdentifier
 *     The unique identifier of the object affected by this permission.
 */
public void setObjectIdentifier(String objectIdentifier) {
    this.objectIdentifier = objectIdentifier;
}

}

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 */

package org.glyptodon.guacamole.auth.jdbc.permission;

import org.glyptodon.guacamole.auth.jdbc.user.ModeledUser;
import java.util.Collection;
import java.util.Collections;
import java.util.Set;
import org.glyptodon.guacamole.auth.jdbc.user.AuthenticatedUser;
import org.glyptodon.guacamole.GuacamoleException;
import org.glyptodon.guacamole.auth.jdbc.base.RestrictedObject;
import org.glyptodon.guacamole.net.auth.permission.ObjectPermission;

```

```

/**
 * A database implementation of ObjectPermissionSet which uses an injected
 * service to query and manipulate the object-level permissions associated with
 * a particular user.
 *
 * @author Michael Jumper
 */
public abstract class ObjectPermissionSet extends RestrictedObject
    implements org.glyptodon.guacamole.net.auth.permission.ObjectPermissionSet {

    /**
     * The user associated with this permission set. Each of the permissions in
     * this permission set is granted to this user.
     */
    private ModeledUser user;

    /**
     * Creates a new ObjectPermissionSet. The resulting permission set
     * must still be initialized by a call to init(), or the information
     * necessary to read and modify this set will be missing.
     */
    public ObjectPermissionSet() {
    }

    /**
     * Initializes this permission set with the current user and the user
     * to whom the permissions in this set are granted.
     *
     * @param currentUser
     *     The user who queried this permission set, and whose permissions
     *     dictate the access level of all operations performed on this set.
     *
     * @param user
     *     The user to whom the permissions in this set are granted.
     */
    public void init(AuthenticatedUser currentUser, ModeledUser user) {
        super.init(currentUser);
        this.user = user;
    }

    /**
     * Returns an ObjectPermissionService implementation for manipulating the
     * type of permissions contained within this permission set.
     *
     * @return
     *     An object permission service for manipulating the type of
     *     permissions contained within this permission set.
     */
}

```

```

protected abstract ObjectPermissionService getObjectPermissionService();

@Override
public Set<ObjectPermission> getPermissions() throws GuacamoleException {
    return getObjectPermissionService().retrievePermissions(getCurrentUser(), user);
}

@Override
public boolean hasPermission(ObjectPermission.Type permission,
    String identifier) throws GuacamoleException {
    return getObjectPermissionService().retrievePermission(getCurrentUser(), user, permission, identifier) != null;
}

@Override
public void addPermission(ObjectPermission.Type permission,
    String identifier) throws GuacamoleException {
    addPermissions(Collections.singleton(new ObjectPermission(permission, identifier)));
}

@Override
public void removePermission(ObjectPermission.Type permission,
    String identifier) throws GuacamoleException {
    removePermissions(Collections.singleton(new ObjectPermission(permission, identifier)));
}

@Override
public Collection<String> getAccessibleObjects(Collection<ObjectPermission.Type> permissions,
    Collection<String> identifiers) throws GuacamoleException {
    return getObjectPermissionService().retrieveAccessibleIdentifiers(getCurrentUser(), user, permissions,
identifiers);
}

@Override
public void addPermissions(Set<ObjectPermission> permissions)
    throws GuacamoleException {
    getObjectPermissionService().createPermissions(getCurrentUser(), user, permissions);
}

@Override
public void removePermissions(Set<ObjectPermission> permissions)
    throws GuacamoleException {
    getObjectPermissionService().deletePermissions(getCurrentUser(), user, permissions);
}

}
/*
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*

```

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 * THE SOFTWARE.
 */

```
package org.glyptodon.guacamole.auth.jdbc.permission;
```

```
import java.util.Collection;
import org.glyptodon.guacamole.auth.jdbc.user.AuthenticatedUser;
import org.glyptodon.guacamole.auth.jdbc.user.ModeledUser;
import org.glyptodon.guacamole.GuacamoleException;
import org.glyptodon.guacamole.net.auth.permission.ObjectPermission;
import org.glyptodon.guacamole.net.auth.permission.ObjectPermissionSet;
```

```
/**
 * Service which provides convenience methods for creating, retrieving, and
 * deleting object permissions. This service will automatically enforce the
 * permissions of the current user.
 *
 * @author Michael Jumper
 */
```

```
public interface ObjectPermissionService
    extends PermissionService<ObjectPermissionSet, ObjectPermission> {
```

```
/**
 * Retrieves the permission of the given type associated with the given
 * user and object, if it exists. If no such permission exists, null is
 *
 * @param user
 *   The user retrieving the permission.
 *
 * @param targetUser
 *   The user associated with the permission to be retrieved.
 */
```

```

* @param type
*   The type of permission to retrieve.
*
* @param identifier
*   The identifier of the object affected by the permission to return.
*
* @return
*   The permission of the given type associated with the given user and
*   object, or null if no such permission exists.
*
* @throws GuacamoleException
*   If an error occurs while retrieving the requested permission.
*/
ObjectPermission retrievePermission(AuthenticatedUser user,
    ModeledUser targetUser, ObjectPermission.Type type,
    String identifier) throws GuacamoleException;

/**
* Retrieves the subset of the given identifiers for which the given user
* has at least one of the given permissions.
*
* @param user
*   The user checking the permissions.
*
* @param targetUser
*   The user to check permissions of.
*
* @param permissions
*   The permissions to check. An identifier will be included in the
*   resulting collection if at least one of these permissions is granted
*   for the associated object
*
* @param identifiers
*   The identifiers of the objects affected by the permissions being
*   checked.
*
* @return
*   A collection containing the subset of identifiers for which at least
*   one of the specified permissions is granted.
*
* @throws GuacamoleException
*   If an error occurs while retrieving permissions.
*/
Collection<String> retrieveAccessibleIdentifiers(AuthenticatedUser user,
    ModeledUser targetUser, Collection<ObjectPermission.Type> permissions,
    Collection<String> identifiers) throws GuacamoleException;
}

```

```

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 */

```

```
package org.glyptodon.guacamole.auth.jdbc.permission;
```

```
import java.util.Collection;
import org.apache.ibatis.annotations.Param;
import org.glyptodon.guacamole.auth.jdbc.user.UserModel;
import org.glyptodon.guacamole.net.auth.permission.ObjectPermission;
```

```

/**
 * Mapper for object-related permissions.
 *
 * @author Michael Jumper
 */
public interface ObjectPermissionMapper extends PermissionMapper<ObjectPermissionModel> {

```

```

/**
 * Retrieve the permission of the given type associated with the given
 * user and object, if it exists. If no such permission exists, null is
 * returned.
 *
 * @param user
 *     The user to retrieve permissions for.
 *
 * @param type
 *     The type of permission to return.
 *
 * @param identifier

```

```

*   The identifier of the object affected by the permission to return.
*
* @return
*   The requested permission, or null if no such permission is granted
*   to the given user for the given object.
*/
ObjectPermissionModel selectOne(@Param("user") UserModel user,
    @Param("type") ObjectPermission.Type type,
    @Param("identifier") String identifier);

/**
* Retrieves the subset of the given identifiers for which the given user
* has at least one of the given permissions.
*
* @param user
*   The user to check permissions of.
*
* @param permissions
*   The permissions to check. An identifier will be included in the
*   resulting collection if at least one of these permissions is granted
*   for the associated object
*
* @param identifiers
*   The identifiers of the objects affected by the permissions being
*   checked.
*
* @return
*   A collection containing the subset of identifiers for which at least
*   one of the specified permissions is granted.
*/
Collection<String> selectAccessibleIdentifiers(@Param("user") UserModel user,
    @Param("permissions") Collection<ObjectPermission.Type> permissions,
    @Param("identifiers") Collection<String> identifiers);

}
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*/
```

```
package org.glyptodon.guacamole.auth.jdbc.permission;
```

```
import org.glyptodon.guacamole.net.auth.permission.SystemPermission;
```

```
/**
```

```
* Object representation of an system-level Guacamole permission, as
* represented in the database.
```

```
*
```

```
* @author Michael Jumper
```

```
*/
```

```
public class SystemPermissionModel extends PermissionModel<SystemPermission.Type> {
```

```
    /**
```

```
     * Creates a new, empty System permission.
```

```
    */
```

```
    public SystemPermissionModel() {
```

```
    }
```

```
}
```

```
/*
```

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```

*/

```
package org.glyptodon.guacamole.auth.jdbc.permission;
```

```
/**
```

```
 * Mapper for connection permissions.
```

```
 *
```

```
 * @author Michael Jumper
```

```
 */
```

```
public interface ConnectionPermissionMapper extends ObjectPermissionMapper { }
```

```
/*
```

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```

```
 */
```

```
package org.glyptodon.guacamole.auth.jdbc.permission;
```

```
import com.google.inject.Inject;
```

```
import com.google.inject.Provider;
```

```
import org.glyptodon.guacamole.auth.jdbc.user.AuthenticatedUser;
```

```
import org.glyptodon.guacamole.GuacamoleException;
```

```
import org.glyptodon.guacamole.auth.jdbc.user.ModeledUser;
```

```
/**
```

```
 * Service which provides convenience methods for creating, retrieving, and
```

```
 * deleting connection group permissions. This service will automatically
```

```
 * enforce the permissions of the current user.
```

```
 *
```

```
 * @author Michael Jumper
```

```
 */
```

```
public class ConnectionGroupPermissionService extends ModeledObjectPermissionService {
```

```

/**
 * Mapper for connection group permissions.
 */
@Inject
private ConnectionGroupPermissionMapper connectionGroupPermissionMapper;

/**
 * Provider for connection group permission sets.
 */
@Inject
private Provider<ConnectionGroupPermissionSet> connectionGroupPermissionSetProvider;

@Override
protected ObjectPermissionMapper getPermissionMapper() {
    return connectionGroupPermissionMapper;
}

@Override
public ObjectPermissionSet getPermissionSet(AuthenticatedUser user,
    ModeledUser targetUser) throws GuacamoleException {

    // Create permission set for requested user
    ObjectPermissionSet permissionSet = connectionGroupPermissionSetProvider.get();
    permissionSet.init(user, targetUser);

    return permissionSet;
}
}
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*/
```

```
package org.glyptodon.guacamole.auth.jdbc.permission;
```

```
/**
```

```
* Mapper for user permissions.
```

```
*
```

```
* @author Michael Jumper
```

```
*/
```

```
public interface UserPermissionMapper extends ObjectPermissionMapper {}
```

```
/*
```

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```

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```

```
*/
```

```
package org.glyptodon.guacamole.auth.jdbc.permission;
```

```
import com.google.inject.Inject;
```

```
import com.google.inject.Provider;
```

```
import org.glyptodon.guacamole.auth.jdbc.user.AuthenticatedUser;
```

```
import org.glyptodon.guacamole.GuacamoleException;
```

```
import org.glyptodon.guacamole.auth.jdbc.user.ModeledUser;
```

```
/**
```

```
* Service which provides convenience methods for creating, retrieving, and  
* deleting user permissions. This service will automatically enforce the  
* permissions of the current user.
```

```
*
```

```

* @author Michael Jumper
*/
public class UserPermissionService extends ModeledObjectPermissionService {

    /**
     * Mapper for user permissions.
     */
    @Inject
    private UserPermissionMapper userPermissionMapper;

    /**
     * Provider for user permission sets.
     */
    @Inject
    private Provider<UserPermissionSet> userPermissionSetProvider;

    @Override
    protected ObjectPermissionMapper getPermissionMapper() {
        return userPermissionMapper;
    }

    @Override
    public ObjectPermissionSet getPermissionSet(AuthenticatedUser user,
        ModeledUser targetUser) throws GuacamoleException {

        // Create permission set for requested user
        ObjectPermissionSet permissionSet = userPermissionSetProvider.get();
        permissionSet.init(user, targetUser);

        return permissionSet;
    }

}

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*/
```

```
package org.glyptodon.guacamole.auth.jdbc.permission;
```

```
import java.util.Collection;  
import java.util.Collections;  
import java.util.HashSet;  
import org.glyptodon.guacamole.auth.jdbc.user.AuthenticatedUser;  
import org.glyptodon.guacamole.auth.jdbc.user.ModeledUser;  
import org.glyptodon.guacamole.GuacamoleException;  
import org.glyptodon.guacamole.GuacamoleSecurityException;  
import org.glyptodon.guacamole.net.auth.permission.ObjectPermission;  
import org.glyptodon.guacamole.net.auth.permission.ObjectPermissionSet;
```

```
/**
```

```
 * Service which provides convenience methods for creating, retrieving, and  
 * deleting object permissions within a backend database model. This service  
 * will automatically enforce the permissions of the current user.
```

```
 *
```

```
 * @author Michael Jumper
```

```
 */
```

```
public abstract class ModeledObjectPermissionService  
    extends ModeledPermissionService<ObjectPermissionSet, ObjectPermission, ObjectPermissionModel>  
    implements ObjectPermissionService {
```

```
    @Override
```

```
    protected abstract ObjectPermissionMapper getPermissionMapper();
```

```
    @Override
```

```
    protected ObjectPermission getPermissionInstance(ObjectPermissionModel model) {  
        return new ObjectPermission(model.getType(), model.getObjectIdentifier());  
    }
```

```
    @Override
```

```
    protected ObjectPermissionModel getModelInstance(ModeledUser targetUser,  
        ObjectPermission permission) {
```

```
        ObjectPermissionModel model = new ObjectPermissionModel();
```

```
        // Populate model object with data from user and permission
```

```
        model.setUserID(targetUser.getModel().getObjectID());
```

```
        model.setUsername(targetUser.getModel().getIdentifier());
```

```

        model.setType(permission.getType());
        model.setObjectIdentifier(permission.getObjectIdentifier());

        return model;
    }

    /**
     * Determines whether the current user has permission to update the given
     * target user, adding or removing the given permissions. Such permission
     * depends on whether the current user is a system administrator, whether
     * they have explicit UPDATE permission on the target user, and whether
     * they have explicit ADMINISTER permission on all affected objects.
     *
     * @param user
     *     The user who is changing permissions.
     *
     * @param targetUser
     *     The user whose permissions are being changed.
     *
     * @param permissions
     *     The permissions that are being added or removed from the target
     *     user.
     *
     * @return
     *     true if the user has permission to change the target users
     *     permissions as specified, false otherwise.
     *
     * @throws GuacamoleException
     *     If an error occurs while checking permission status, or if
     *     permission is denied to read the current user's permissions.
     */
    protected boolean canAlterPermissions(AuthenticatedUser user, ModeledUser targetUser,
        Collection<ObjectPermission> permissions)
        throws GuacamoleException {

        // A system administrator can do anything
        if (user.getUser().isAdministrator())
            return true;

        // Verify user has update permission on the target user
        ObjectPermissionSet userPermissionSet = user.getUser().getUserPermissions();
        if (!userPermissionSet.hasPermission(ObjectPermission.Type.UPDATE, targetUser.getIdentifier()))
            return false;

        // Produce collection of affected identifiers
        Collection<String> affectedIdentifiers = new HashSet<String>(permissions.size());
        for (ObjectPermission permission : permissions)

```

```

        affectedIdentifiers.add(permission.getObjectIdentifier());

// Determine subset of affected identifiers that we have admin access to
ObjectPermissionSet affectedPermissionSet = getPermissionSet(user, user.getUser());
Collection<String> allowedSubset = affectedPermissionSet.getAccessibleObjects(
    Collections.singleton(ObjectPermission.Type.ADMINISTER),
    affectedIdentifiers
);

// The permissions can be altered if and only if the set of objects we
// are allowed to administer is equal to the set of objects we will be
// affecting.

return affectedIdentifiers.size() == allowedSubset.size();

}

@Override
public void createPermissions(AuthenticatedUser user, ModeledUser targetUser,
    Collection<ObjectPermission> permissions)
    throws GuacamoleException {

// Create permissions only if user has permission to do so
if (canAlterPermissions(user, targetUser, permissions)) {
    Collection<ObjectPermissionModel> models = getModelInstances(targetUser, permissions);
    getPermissionMapper().insert(models);
    return;
}

// User lacks permission to create object permissions
throw new GuacamoleSecurityException("Permission denied.");

}

@Override
public void deletePermissions(AuthenticatedUser user, ModeledUser targetUser,
    Collection<ObjectPermission> permissions)
    throws GuacamoleException {

// Delete permissions only if user has permission to do so
if (canAlterPermissions(user, targetUser, permissions)) {
    Collection<ObjectPermissionModel> models = getModelInstances(targetUser, permissions);
    getPermissionMapper().delete(models);
    return;
}

// User lacks permission to delete object permissions
throw new GuacamoleSecurityException("Permission denied.");
}

```

```

}

@Override
public ObjectPermission retrievePermission(AuthenticatedUser user,
    ModeledUser targetUser, ObjectPermission.Type type,
    String identifier) throws GuacamoleException {

    // Retrieve permissions only if allowed
    if (canReadPermissions(user, targetUser)) {

        // Read permission from database, return null if not found
        ObjectPermissionModel model = getPermissionMapper().selectOne(targetUser.getModel(), type, identifier);
        if (model == null)
            return null;

        return getPermissionInstance(model);

    }

    // User cannot read this user's permissions
    throw new GuacamoleSecurityException("Permission denied.");

}

@Override
public Collection<String> retrieveAccessibleIdentifiers(AuthenticatedUser user,
    ModeledUser targetUser, Collection<ObjectPermission.Type> permissions,
    Collection<String> identifiers) throws GuacamoleException {

    // Nothing is always accessible
    if (identifiers.isEmpty())
        return identifiers;

    // Retrieve permissions only if allowed
    if (canReadPermissions(user, targetUser)) {

        // If user is an admin, everything is accessible
        if (user.getUser().isAdministrator())
            return identifiers;

        // Otherwise, return explicitly-retrievable identifiers
        return getPermissionMapper().selectAccessibleIdentifiers(targetUser.getModel(), permissions, identifiers);

    }

    // User cannot read this user's permissions
    throw new GuacamoleSecurityException("Permission denied.");
}

```

```

    }

}
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```

```
package org.glyptodon.guacamole.auth.jdbc.permission;
```

```
import org.glyptodon.guacamole.auth.jdbc.user.UserModel;
import org.apache.ibatis.annotations.Param;
import org.glyptodon.guacamole.net.auth.permission.SystemPermission;
```

```
/**
 * Mapper for system-level permissions.
 *

```

```
 * @author Michael Jumper
 */
```

```
public interface SystemPermissionMapper extends PermissionMapper<SystemPermissionModel> {
```

```
    /**
     * Retrieve the permission of the given type associated with the given
     * user, if it exists. If no such permission exists, null is returned.
     *

```

```
     * @param user
     * The user to retrieve permissions for.
     *

```

```
     * @param type
     * The type of permission to return.
     */

```

```

*
* @return
*   The requested permission, or null if no such permission is granted
*   to the given user.
*/
SystemPermissionModel selectOne(@Param("user") UserModel user,
    @Param("type") SystemPermission.Type type);

}
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*/

package org.glyptodon.guacamole.auth.jdbc.permission;

import org.glyptodon.guacamole.auth.jdbc.user.ModeledUser;
import com.google.inject.Inject;
import java.util.Collections;
import java.util.Set;
import org.glyptodon.guacamole.auth.jdbc.user.AuthenticatedUser;
import org.glyptodon.guacamole.GuacamoleException;
import org.glyptodon.guacamole.auth.jdbc.base.RestrictedObject;
import org.glyptodon.guacamole.net.auth.permission.SystemPermission;

/**
* A database implementation of SystemPermissionSet which uses an injected
* service to query and manipulate the system permissions associated with a
* particular user.
*
* @author Michael Jumper

```

```

*/
public class SystemPermissionSet extends RestrictedObject
    implements org.glyptodon.guacamole.net.auth.permission.SystemPermissionSet {

    /**
     * The user associated with this permission set. Each of the permissions in
     * this permission set is granted to this user.
     */
    private ModeledUser user;

    /**
     * Service for reading and manipulating system permissions.
     */
    @Inject
    private SystemPermissionService systemPermissionService;

    /**
     * Creates a new SystemPermissionSet. The resulting permission set
     * must still be initialized by a call to init(), or the information
     * necessary to read and modify this set will be missing.
     */
    public SystemPermissionSet() {
    }

    /**
     * Initializes this permission set with the current user and the user
     * to whom the permissions in this set are granted.
     *
     * @param currentUser
     *     The user who queried this permission set, and whose permissions
     *     dictate the access level of all operations performed on this set.
     *
     * @param user
     *     The user to whom the permissions in this set are granted.
     */
    public void init(AuthenticatedUser currentUser, ModeledUser user) {
        super.init(currentUser);
        this.user = user;
    }

    @Override
    public Set<SystemPermission> getPermissions() throws GuacamoleException {
        return systemPermissionService.retrievePermissions(getCurrentUser(), user);
    }

    @Override
    public boolean hasPermission(SystemPermission.Type permission)
        throws GuacamoleException {

```

```

        return systemPermissionService.retrievePermission(getCurrentUser(), user, permission) != null;
    }

    @Override
    public void addPermission(SystemPermission.Type permission)
        throws GuacamoleException {
        addPermissions(Collections.singleton(new SystemPermission(permission)));
    }

    @Override
    public void removePermission(SystemPermission.Type permission)
        throws GuacamoleException {
        removePermissions(Collections.singleton(new SystemPermission(permission)));
    }

    @Override
    public void addPermissions(Set<SystemPermission> permissions)
        throws GuacamoleException {
        systemPermissionService.createPermissions(getCurrentUser(), user, permissions);
    }

    @Override
    public void removePermissions(Set<SystemPermission> permissions)
        throws GuacamoleException {
        systemPermissionService.deletePermissions(getCurrentUser(), user, permissions);
    }

}
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```

```

*/

package org.glyptodon.guacamole.auth.jdbc.permission;

import com.google.inject.Inject;

/**
 * A database implementation of ObjectPermissionSet which uses an injected
 * service to query and manipulate the connection group permissions associated
 * with a particular user.
 *
 * @author Michael Jumper
 */
public class ConnectionGroupPermissionSet extends ObjectPermissionSet {

    /**
     * Service for querying and manipulating connection group permissions.
     */
    @Inject
    private ConnectionGroupPermissionService connectionGroupPermissionService;

    @Override
    protected ObjectPermissionService getObjectPermissionService() {
        return connectionGroupPermissionService;
    }
}

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 */

```

```

package org.glyptodon.guacamole.auth.jdbc.permission;

import org.glyptodon.guacamole.auth.jdbc.user.AuthenticatedUser;
import org.glyptodon.guacamole.auth.jdbc.user.ModeledUser;
import org.glyptodon.guacamole.GuacamoleException;
import org.glyptodon.guacamole.net.auth.permission.ObjectPermission;
import org.glyptodon.guacamole.net.auth.permission.ObjectPermissionSet;
import org.glyptodon.guacamole.net.auth.permission.Permission;
import org.glyptodon.guacamole.net.auth.permission.PermissionSet;

/**
 * Abstract PermissionService implementation which provides additional
 * convenience methods for enforcing the permission model.
 *
 * @author Michael Jumper
 * @param <PermissionSetType>
 *     The type of permission sets this service provides access to.
 *
 * @param <PermissionType>
 *     The type of permission this service provides access to.
 */
public abstract class AbstractPermissionService<PermissionSetType extends PermissionSet<PermissionType>,
    PermissionType extends Permission>
    implements PermissionService<PermissionSetType, PermissionType> {

    /**
     * Determines whether the given user can read the permissions currently
     * granted to the given target user. If the reading user and the target
     * user are not the same, then explicit READ or SYSTEM_ADMINISTER access is
     * required.
     *
     * @param user
     *     The user attempting to read permissions.
     *
     * @param targetUser
     *     The user whose permissions are being read.
     *
     * @return
     *     true if permission is granted, false otherwise.
     *
     * @throws GuacamoleException
     *     If an error occurs while checking permission status, or if
     *     permission is denied to read the current user's permissions.
     */
    protected boolean canReadPermissions(AuthenticatedUser user,
        ModeledUser targetUser) throws GuacamoleException {

```

```

// A user can always read their own permissions
if (user.getUser().getIdentifier().equals(targetUser.getIdentifier()))
    return true;

// A system administrator can do anything
if (user.getUser().isAdministrator())
    return true;

// Can read permissions on target user if explicit READ is granted
ObjectPermissionSet userPermissionSet = user.getUser().getUserPermissions();
return userPermissionSet.hasPermission(ObjectPermission.Type.READ, targetUser.getIdentifier());

}

}
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*/

package org.glyptodon.guacamole.auth.jdbc.permission;

import java.util.ArrayList;
import java.util.Collection;
import java.util.HashSet;
import java.util.Set;
import org.glyptodon.guacamole.auth.jdbc.user.AuthenticatedUser;
import org.glyptodon.guacamole.auth.jdbc.user.ModeledUser;
import org.glyptodon.guacamole.GuacamoleException;
import org.glyptodon.guacamole.GuacamoleSecurityException;
import org.glyptodon.guacamole.net.auth.permission.ObjectPermission;

```

```

import org.glyptodon.guacamole.net.auth.permission.ObjectPermissionSet;
import org.glyptodon.guacamole.net.auth.permission.Permission;
import org.glyptodon.guacamole.net.auth.permission.PermissionSet;

/**
 * Service which provides convenience methods for creating, retrieving, and
 * deleting permissions, and for obtaining the permission sets that contain
 * these permissions. This service will automatically enforce the permissions
 * of the current user.
 *
 * @author Michael Jumper
 * @param <PermissionSetType>
 *     The type of permission sets this service provides access to.
 *
 * @param <PermissionType>
 *     The type of permission this service provides access to.
 */
public interface PermissionService<PermissionSetType extends PermissionSet<PermissionType>,
    PermissionType extends Permission> {

    /**
     * Returns a permission set that can be used to retrieve and manipulate the
     * permissions of the given user.
     *
     * @param user
     *     The user who will be retrieving or manipulating permissions through
     *     the returned permission set.
     *
     * @param targetUser
     *     The user to whom the permissions in the returned permission set are
     *     granted.
     *
     * @return
     *     A permission set that contains all permissions associated with the
     *     given user, and can be used to manipulate that user's permissions.
     *
     * @throws GuacamoleException
     *     If an error occurs while retrieving the permissions of the given
     *     user, or if permission to retrieve the permissions of the given
     *     user is denied.
     */
    PermissionSetType getPermissionSet(AuthenticatedUser user,
        ModeledUser targetUser) throws GuacamoleException;

    /**
     * Retrieves all permissions associated with the given user.
     *
     * @param user

```

```

*   The user retrieving the permissions.
*
* @param targetUser
*   The user associated with the permissions to be retrieved.
*
* @return
*   The permissions associated with the given user.
*
* @throws GuacamoleException
*   If an error occurs while retrieving the requested permissions.
*/
Set<PermissionType> retrievePermissions(AuthenticatedUser user,
    ModeledUser targetUser) throws GuacamoleException;

/**
* Creates the given permissions within the database. If any permissions
* already exist, they will be ignored.
*
* @param user
*   The user creating the permissions.
*
* @param targetUser
*   The user associated with the permissions to be created.
*
* @param permissions
*   The permissions to create.
*
* @throws GuacamoleException
*   If the user lacks permission to create the permissions, or an error
*   occurs while creating the permissions.
*/
void createPermissions(AuthenticatedUser user, ModeledUser targetUser,
    Collection<PermissionType> permissions) throws GuacamoleException;

/**
* Deletes the given permissions. If any permissions do not exist, they
* will be ignored.
*
* @param user
*   The user deleting the permissions.
*
* @param targetUser
*   The user associated with the permissions to be deleted.
*
* @param permissions
*   The permissions to delete.
*
* @throws GuacamoleException

```

```

*   If the user lacks permission to delete the permissions, or an error
*   occurs while deleting the permissions.
*/
void deletePermissions(AuthenticatedUser user, ModeledUser targetUser,
    Collection<PermissionType> permissions) throws GuacamoleException;

}
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*/

package org.glyptodon.guacamole.auth.jdbc.permission;

import java.util.ArrayList;
import java.util.Collection;
import java.util.HashSet;
import java.util.Set;
import org.glyptodon.guacamole.auth.jdbc.user.AuthenticatedUser;
import org.glyptodon.guacamole.auth.jdbc.user.ModeledUser;
import org.glyptodon.guacamole.GuacamoleException;
import org.glyptodon.guacamole.GuacamoleSecurityException;
import org.glyptodon.guacamole.net.auth.permission.Permission;
import org.glyptodon.guacamole.net.auth.permission.PermissionSet;

/**
* Service which provides convenience methods for creating, retrieving, and
* deleting permissions within a backend database model, and for obtaining the
* permission sets that contain these permissions. This service will
* automatically enforce the permissions of the current user.
*
*/

```

```

* @author Michael Jumper
* @param <PermissionSetType>
*   The type of permission sets this service provides access to.
*
* @param <PermissionType>
*   The type of permission this service provides access to.
*
* @param <ModelType>
*   The underlying model object used to represent PermissionType in the
*   database.
*/
public abstract class ModeledPermissionService<PermissionSetType extends PermissionSet<PermissionType>,
    PermissionType extends Permission, ModelType>
    extends AbstractPermissionService<PermissionSetType, PermissionType> {

    /**
     * Returns an instance of a mapper for the type of permission used by this
     * service.
     *
     * @return
     *   A mapper which provides access to the model objects associated with
     *   the permissions used by this service.
     */
    protected abstract PermissionMapper<ModelType> getPermissionMapper();

    /**
     * Returns an instance of a permission which is based on the given model
     * object.
     *
     * @param model
     *   The model object to use to produce the returned permission.
     *
     * @return
     *   A permission which is based on the given model object.
     */
    protected abstract PermissionType getPermissionInstance(ModelType model);

    /**
     * Returns a collection of permissions which are based on the models in
     * the given collection.
     *
     * @param models
     *   The model objects to use to produce the permissions within the
     *   returned set.
     *
     * @return
     *   A set of permissions which are based on the models in the given
     *   collection.

```

```

*/
protected Set<PermissionType> getPermissionInstances(Collection<ModelType> models) {

    // Create new collection of permissions by manually converting each model
    Set<PermissionType> permissions = new HashSet<PermissionType>(models.size());
    for (ModelType model : models)
        permissions.add(getPermissionInstance(model));

    return permissions;

}

/**
 * Returns an instance of a model object which is based on the given
 * permission and target user.
 *
 * @param targetUser
 *     The user to whom this permission is granted.
 *
 * @param permission
 *     The permission to use to produce the returned model object.
 *
 * @return
 *     A model object which is based on the given permission and target
 *     user.
 */
protected abstract ModelType getModelInstance(ModeledUser targetUser,
        PermissionType permission);

/**
 * Returns a collection of model objects which are based on the given
 * permissions and target user.
 *
 * @param targetUser
 *     The user to whom this permission is granted.
 *
 * @param permissions
 *     The permissions to use to produce the returned model objects.
 *
 * @return
 *     A collection of model objects which are based on the given
 *     permissions and target user.
 */
protected Collection<ModelType> getModelInstances(ModeledUser targetUser,
        Collection<PermissionType> permissions) {

    // Create new collection of models by manually converting each permission
    Collection<ModelType> models = new ArrayList<ModelType>(permissions.size());

```

```

    for (PermissionType permission : permissions)
        models.add(getModelInstance(targetUser, permission));

    return models;

}

@Override
public Set<PermissionType> retrievePermissions(AuthenticatedUser user,
    ModeledUser targetUser) throws GuacamoleException {

    // Retrieve permissions only if allowed
    if (canReadPermissions(user, targetUser))
        return getPermissionInstances(getPermissionMapper().select(targetUser.getModel()));

    // User cannot read this user's permissions
    throw new GuacamoleSecurityException("Permission denied.");

}

}

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 */

package org.glyptodon.guacamole.auth.jdbc.permission;

/**
 * Generic base permission model which grants a permission of a particular type
 * to a specific user.

```

```

*
* @author Michael Jumper
* @param <PermissionType>
*   The type of permissions allowed within this model.
*/
public abstract class PermissionModel<PermissionType> {

    /**
     * The database ID of the user to whom this permission is granted.
     */
    private Integer userID;

    /**
     * The username of the user to whom this permission is granted.
     */
    private String username;

    /**
     * The type of action granted by this permission.
     */
    private PermissionType type;

    /**
     * Returns the database ID of the user to whom this permission is granted.
     *
     * @return
     *   The database ID of the user to whom this permission is granted.
     */
    public Integer getUserID() {
        return userID;
    }

    /**
     * Sets the database ID of the user to whom this permission is granted.
     *
     * @param userID
     *   The database ID of the user to whom this permission is granted.
     */
    public void setUserID(Integer userID) {
        this.userID = userID;
    }

    /**
     * Returns the username of the user to whom this permission is granted.
     *
     * @return
     *   The username of the user to whom this permission is granted.
     */

```

```

public String getUsername() {
    return username;
}

/**
 * Sets the username of the user to whom this permission is granted.
 *
 * @param username
 *     The username of the user to whom this permission is granted.
 */
public void setUsername(String username) {
    this.username = username;
}

/**
 * Returns the type of action granted by this permission.
 *
 * @return
 *     The type of action granted by this permission.
 */
public PermissionType getType() {
    return type;
}

/**
 * Sets the type of action granted by this permission.
 *
 * @param type
 *     The type of action granted by this permission.
 */
public void setType(PermissionType type) {
    this.type = type;
}

}
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*/

```

```
package org.glyptodon.guacamole.auth.jdbc.permission;
```

```
import com.google.inject.Inject;
```

```
/**
```

```

* A database implementation of ObjectPermissionSet which uses an injected
* service to query and manipulate the connection permissions associated with
* a particular user.
*

```

```
*
```

```
* @author Michael Jumper
```

```
*/
```

```
public class ConnectionPermissionSet extends ObjectPermissionSet {
```

```
    /**
```

```
    * Service for querying and manipulating connection permissions.
```

```
    */
```

```
    @Inject
```

```
    private ConnectionPermissionService connectionPermissionService;
```

```
    @Override
```

```
    protected ObjectPermissionService getObjectPermissionService() {
```

```
        return connectionPermissionService;
```

```
    }
```

```
}
```

```
/*
```

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```
*
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*/

/**

* Classes related to object- and system-level permissions.

*/

package org.glyptodon.guacamole.auth.jdbc.permission;

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*/

package org.glyptodon.guacamole.auth.jdbc.permission;

import com.google.inject.Inject;

import com.google.inject.Provider;

import java.util.Collection;

import org.glyptodon.guacamole.auth.jdbc.user.AuthenticatedUser;

import org.glyptodon.guacamole.auth.jdbc.user.ModeledUser;

import org.glyptodon.guacamole.GuacamoleException;

import org.glyptodon.guacamole.GuacamoleSecurityException;

import org.glyptodon.guacamole.GuacamoleUnsupportedException;

import org.glyptodon.guacamole.net.auth.permission.SystemPermission;

/**

* Service which provides convenience methods for creating, retrieving, and

```

* deleting system permissions. This service will automatically enforce
* the permissions of the current user.
*
* @author Michael Jumper
*/
public class SystemPermissionService
    extends ModeledPermissionService<SystemPermissionSet, SystemPermission, SystemPermissionModel> {

    /**
     * Mapper for system-level permissions.
     */
    @Inject
    private SystemPermissionMapper systemPermissionMapper;

    /**
     * Provider for creating system permission sets.
     */
    @Inject
    private Provider<SystemPermissionSet> systemPermissionSetProvider;

    @Override
    protected SystemPermissionMapper getPermissionMapper() {
        return systemPermissionMapper;
    }

    @Override
    protected SystemPermission getPermissionInstance(SystemPermissionModel model) {
        return new SystemPermission(model.getType());
    }

    @Override
    protected SystemPermissionModel getModelInstance(final ModeledUser targetUser,
        final SystemPermission permission) {

        SystemPermissionModel model = new SystemPermissionModel();

        // Populate model object with data from user and permission
        model.setUserID(targetUser.getModel().getObjectID());
        model.setUsername(targetUser.getModel().getIdentifier());
        model.setType(permission.getType());

        return model;
    }

    @Override
    public SystemPermissionSet getPermissionSet(AuthenticatedUser user,
        ModeledUser targetUser) throws GuacamoleException {

```

```

// Create permission set for requested user
SystemPermissionSet permissionSet = systemPermissionSetProvider.get();
permissionSet.init(user, targetUser);

return permissionSet;

}

@Override
public void createPermissions(AuthenticatedUser user, ModeledUser targetUser,
    Collection<SystemPermission> permissions) throws GuacamoleException {

    // Only an admin can create system permissions
    if (user.getUser().isAdministrator()) {
        Collection<SystemPermissionModel> models = getModelInstances(targetUser, permissions);
        systemPermissionMapper.insert(models);
        return;
    }

    // User lacks permission to create system permissions
    throw new GuacamoleSecurityException("Permission denied.");

}

@Override
public void deletePermissions(AuthenticatedUser user, ModeledUser targetUser,
    Collection<SystemPermission> permissions) throws GuacamoleException {

    // Only an admin can delete system permissions
    if (user.getUser().isAdministrator()) {

        // Do not allow users to remove their own admin powers
        if (user.getUser().getIdentifier().equals(targetUser.getIdentifier()))
            throw new GuacamoleUnsupportedException("Removing your own administrative permissions is not
allowed.");

        Collection<SystemPermissionModel> models = getModelInstances(targetUser, permissions);
        systemPermissionMapper.delete(models);
        return;
    }

    // User lacks permission to delete system permissions
    throw new GuacamoleSecurityException("Permission denied.");

}

/**

```

```

* Retrieves the permission of the given type associated with the given
* user, if it exists. If no such permission exists, null is returned.
*
* @param user
*   The user retrieving the permission.
*
* @param targetUser
*   The user associated with the permission to be retrieved.
*
* @param type
*   The type of permission to retrieve.
*
* @return
*   The permission of the given type associated with the given user, or
*   null if no such permission exists.
*
* @throws GuacamoleException
*   If an error occurs while retrieving the requested permission.
*/
public SystemPermission retrievePermission(AuthenticatedUser user,
    ModeledUser targetUser, SystemPermission.Type type) throws GuacamoleException {

    // Retrieve permissions only if allowed
    if (canReadPermissions(user, targetUser)) {

        // Read permission from database, return null if not found
        SystemPermissionModel model = getPermissionMapper().selectOne(targetUser.getModel(), type);
        if (model == null)
            return null;

        return getPermissionInstance(model);

    }

    // User cannot read this user's permissions
    throw new GuacamoleSecurityException("Permission denied.");

}

}
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*/

```

```
package org.glyptodon.guacamole.auth.jdbc.permission;
```

```
import com.google.inject.Inject;
```

```

/**
 * A database implementation of ObjectPermissionSet which uses an injected
 * service to query and manipulate the user permissions associated with a
 * particular user.
 *
 * @author Michael Jumper
 */

```

```
public class UserPermissionSet extends ObjectPermissionSet {
```

```

    /**
     * Service for querying and manipulating user permissions.
     */

```

```

    @Inject
    private UserPermissionService userPermissionService;

```

```

    @Override
    protected ObjectPermissionService getObjectPermissionService() {
        return userPermissionService;
    }

```

```

}
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*/
```

```
package org.glyptodon.guacamole.auth.jdbc.permission;
```

```
/**
```

```
 * Mapper for connection group permissions.
```

```
 *
```

```
 * @author Michael Jumper
```

```
 */
```

```
public interface ConnectionGroupPermissionMapper extends ObjectPermissionMapper { }
```

```
/*
```

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```

```
 *
```

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 *
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```

```
 */
```

```
package org.glyptodon.guacamole.auth.jdbc.permission;
```

```
import com.google.inject.Inject;
```

```
import com.google.inject.Provider;
```

```
import org.glyptodon.guacamole.auth.jdbc.user.AuthenticatedUser;
```

```

import org.glyptodon.guacamole.GuacamoleException;
import org.glyptodon.guacamole.auth.jdbc.user.ModeledUser;

/**
 * Service which provides convenience methods for creating, retrieving, and
 * deleting connection permissions. This service will automatically enforce the
 * permissions of the current user.
 *
 * @author Michael Jumper
 */
public class ConnectionPermissionService extends ModeledObjectPermissionService {

    /**
     * Mapper for connection permissions.
     */
    @Inject
    private ConnectionPermissionMapper connectionPermissionMapper;

    /**
     * Provider for connection permission sets.
     */
    @Inject
    private Provider<ConnectionPermissionSet> connectionPermissionSetProvider;

    @Override
    protected ObjectPermissionMapper getPermissionMapper() {
        return connectionPermissionMapper;
    }

    @Override
    public ObjectPermissionSet getPermissionSet(AuthenticatedUser user,
        ModeledUser targetUser) throws GuacamoleException {

        // Create permission set for requested user
        ObjectPermissionSet permissionSet = connectionPermissionSetProvider.get();
        permissionSet.init(user, targetUser);

        return permissionSet;
    }
}

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"
    "http://mybatis.org/dtd/mybatis-3-mapper.dtd" >

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-->

```
<mapper namespace="org.glyptodon.guacamole.auth.jdbc.permission.UserPermissionMapper" >
```

```
<!-- Result mapper for user permissions -->
```

```
<resultMap id="UserPermissionResultMap"
type="org.glyptodon.guacamole.auth.jdbc.permission.ObjectPermissionModel">
  <result column="user_id"    property="userID"    jdbcType="INTEGER"/>
  <result column="username"   property="username"   jdbcType="VARCHAR"/>
  <result column="permission" property="type"      jdbcType="VARCHAR"
      javaType="org.glyptodon.guacamole.net.auth.permission.ObjectPermission$Type"/>
  <result column="affected_username" property="objectIdentifier" jdbcType="INTEGER"/>
</resultMap>
```

```
<!-- Select all permissions for a given user -->
```

```
<select id="select" resultMap="UserPermissionResultMap">
```

```
SELECT
  guacamole_user_permission.user_id,
  guacamole_user.username,
  permission,
  affected.username AS affected_username
FROM guacamole_user_permission
JOIN guacamole_user      ON guacamole_user_permission.user_id      = guacamole_user.user_id
JOIN guacamole_user affected ON guacamole_user_permission.affected_user_id = affected.user_id
WHERE guacamole_user_permission.user_id = #{user.objectID,jdbcType=INTEGER}
```

```
</select>
```

```
<!-- Select the single permission matching the given criteria -->
```

```
<select id="selectOne" resultMap="UserPermissionResultMap">
```

```
SELECT
```

```
    guacamole_user_permission.user_id,  
    guacamole_user.username,  
    permission,  
    affected.username AS affected_username
```

```
FROM guacamole_user_permission
```

```
JOIN guacamole_user      ON guacamole_user_permission.user_id      = guacamole_user.user_id
```

```
JOIN guacamole_user affected ON guacamole_user_permission.affected_user_id = affected.user_id
```

```
WHERE
```

```
    guacamole_user_permission.user_id = #{user.objectID,jdbcType=INTEGER}  
    AND permission = #{type,jdbcType=VARCHAR}::guacamole_object_permission_type  
    AND affected.username = #{identifier,jdbcType=INTEGER}
```

```
</select>
```

```
<!-- Select identifiers accessible by the given user for the given permissions -->
```

```
<select id="selectAccessibleIdentifiers" resultType="string">
```

```
SELECT DISTINCT username
```

```
FROM guacamole_user_permission
```

```
JOIN guacamole_user ON guacamole_user_permission.affected_user_id = guacamole_user.user_id
```

```
WHERE
```

```
    guacamole_user_permission.user_id = #{user.objectID,jdbcType=INTEGER}  
    AND username IN
```

```
        <foreach collection="identifiers" item="identifier"
```

```
            open="(" separator="," close=")">
```

```
                #{identifier,jdbcType=INTEGER}
```

```
        </foreach>
```

```
    AND permission IN
```

```
        <foreach collection="permissions" item="permission"
```

```
            open="(" separator="," close=")">
```

```
                #{permission,jdbcType=VARCHAR}::guacamole_object_permission_type
```

```
        </foreach>
```

```
</select>
```

```
<!-- Delete all given permissions -->
```

```
<delete id="delete" parameterType="org.glyptodon.guacamole.auth.jdbc.permission.ObjectPermissionModel">
```

```
DELETE FROM guacamole_user_permission
```

```
USING guacamole_user affected
```

```
WHERE
```

```
    guacamole_user_permission.affected_user_id = affected.user_id
```

```
    AND (guacamole_user_permission.user_id, permission, affected.username) IN
```

```
        <foreach collection="permissions" item="permission"
```

```
            open="(" separator="," close=")">
```

```

        #{permission.userID,jdbcType=INTEGER},
        #{permission.type,jdbcType=VARCHAR}::guacamole_object_permission_type,
        #{permission.objectIdentifier,jdbcType=INTEGER})
    </foreach>

</delete>

<!-- Insert all given permissions -->
<insert id="insert" parameterType="org.glyptodon.guacamole.auth.jdbc.permission.ObjectPermissionModel">

    INSERT INTO guacamole_user_permission (
        user_id,
        permission,
        affected_user_id
    )
    SELECT permissions.user_id, permissions.permission, guacamole_user.user_id FROM
    <foreach collection="permissions" item="permission"
        open="(" separator="UNION ALL" close=")">
        SELECT #{permission.userID,jdbcType=INTEGER}                AS user_id,
               #{permission.type,jdbcType=VARCHAR}::guacamole_object_permission_type AS permission,
               #{permission.objectIdentifier,jdbcType=INTEGER}        AS username
    </foreach>
    AS permissions
    JOIN guacamole_user ON guacamole_user.username = permissions.username;

</insert>

</mapper>
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"
    "http://mybatis.org/dtd/mybatis-3-mapper.dtd" >

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-->

```
<mapper namespace="org.glyptodon.guacamole.auth.jdbc.permission.ConnectionGroupPermissionMapper" >
```

```
<!-- Result mapper for connection permissions -->
```

```
<resultMap id="ConnectionGroupPermissionResultMap"
type="org.glyptodon.guacamole.auth.jdbc.permission.ObjectPermissionModel">
  <result column="user_id"      property="userID"      jdbcType="INTEGER"/>
  <result column="username"    property="username"    jdbcType="VARCHAR"/>
  <result column="permission"  property="type"        jdbcType="VARCHAR"
      javaType="org.glyptodon.guacamole.net.auth.permission.ObjectPermission$Type"/>
  <result column="connection_group_id" property="objectIdentifier" jdbcType="INTEGER"/>
</resultMap>
```

```
<!-- Select all permissions for a given user -->
```

```
<select id="select" resultMap="ConnectionGroupPermissionResultMap">
```

```
SELECT
  guacamole_connection_group_permission.user_id,
  username,
  permission,
  connection_group_id
FROM guacamole_connection_group_permission
JOIN guacamole_user ON guacamole_connection_group_permission.user_id = guacamole_user.user_id
WHERE guacamole_connection_group_permission.user_id = #{user.objectID,jdbcType=INTEGER}
```

```
</select>
```

```
<!-- Select the single permission matching the given criteria -->
```

```
<select id="selectOne" resultMap="ConnectionGroupPermissionResultMap">
```

```
SELECT
  guacamole_connection_group_permission.user_id,
  username,
  permission,
  connection_group_id
FROM guacamole_connection_group_permission
JOIN guacamole_user ON guacamole_connection_group_permission.user_id = guacamole_user.user_id
WHERE
  guacamole_connection_group_permission.user_id = #{user.objectID,jdbcType=INTEGER}
  AND permission = #{type,jdbcType=VARCHAR}::guacamole_object_permission_type
  AND connection_group_id = #{identifier,jdbcType=INTEGER}::integer
```

```
</select>
```

```

<!-- Select identifiers accessible by the given user for the given permissions -->
<select id="selectAccessibleIdentifiers" resultType="string">

    SELECT DISTINCT connection_group_id
    FROM guacamole_connection_group_permission
    WHERE
        user_id = #{user.objectID,jdbcType=INTEGER}
        AND connection_group_id IN
            <foreach collection="identifiers" item="identifier"
                open="(" separator="," close=")">
                #{identifier,jdbcType=INTEGER}::integer
            </foreach>
        AND permission IN
            <foreach collection="permissions" item="permission"
                open="(" separator="," close=")">
                #{permission,jdbcType=VARCHAR}::guacamole_object_permission_type
            </foreach>

</select>

<!-- Delete all given permissions -->
<delete id="delete" parameterType="org.glyptodon.guacamole.auth.jdbc.permission.ObjectPermissionModel">

    DELETE FROM guacamole_connection_group_permission
    WHERE (user_id, permission, connection_group_id) IN
        <foreach collection="permissions" item="permission"
            open="(" separator="," close=")">
            (#{permission.userID,jdbcType=INTEGER},
            #{permission.type,jdbcType=VARCHAR}::guacamole_object_permission_type,
            #{permission.objectIdentifier,jdbcType=INTEGER}::integer)
        </foreach>

</delete>

<!-- Insert all given permissions -->
<insert id="insert" parameterType="org.glyptodon.guacamole.auth.jdbc.permission.ObjectPermissionModel">

    INSERT INTO guacamole_connection_group_permission (
        user_id,
        permission,
        connection_group_id
    )
    VALUES
        <foreach collection="permissions" item="permission" separator=",">
        (#{permission.userID,jdbcType=INTEGER},
        #{permission.type,jdbcType=VARCHAR}::guacamole_object_permission_type,
        #{permission.objectIdentifier,jdbcType=INTEGER}::integer)
    </foreach>

```

```

    </foreach>

</insert>

</mapper>
<?xml version="1.0" encoding="UTF-8" ?>
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    "http://mybatis.org/dtd/mybatis-3-mapper.dtd" >

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```
-->
```

```
<mapper namespace="org.glyptodon.guacamole.auth.jdbc.permission.ConnectionPermissionMapper" >
```

```

<!-- Result mapper for connection permissions -->
<resultMap id="ConnectionPermissionResultMap"
type="org.glyptodon.guacamole.auth.jdbc.permission.ObjectPermissionModel">
    <result column="user_id"    property="userID"    jdbcType="INTEGER"/>
    <result column="username"  property="username"  jdbcType="VARCHAR"/>
    <result column="permission" property="type"      jdbcType="VARCHAR"
        javaType="org.glyptodon.guacamole.net.auth.permission.ObjectPermission$Type"/>
    <result column="connection_id" property="objectIdentifier" jdbcType="INTEGER"/>
</resultMap>

```

```

<!-- Select all permissions for a given user -->
<select id="select" resultMap="ConnectionPermissionResultMap">

```

```

    SELECT
        guacamole_connection_permission.user_id,

```

```

    username,
    permission,
    connection_id
FROM guacamole_connection_permission
JOIN guacamole_user ON guacamole_connection_permission.user_id = guacamole_user.user_id
WHERE guacamole_connection_permission.user_id = #{user.objectID,jdbcType=INTEGER}

</select>

<!-- Select the single permission matching the given criteria -->
<select id="selectOne" resultMap="ConnectionPermissionResultMap">

    SELECT
        guacamole_connection_permission.user_id,
        username,
        permission,
        connection_id
    FROM guacamole_connection_permission
    JOIN guacamole_user ON guacamole_connection_permission.user_id = guacamole_user.user_id
    WHERE
        guacamole_connection_permission.user_id = #{user.objectID,jdbcType=INTEGER}
        AND permission = #{type,jdbcType=VARCHAR}::guacamole_object_permission_type
        AND connection_id = #{identifier,jdbcType=INTEGER}::integer

</select>

<!-- Select identifiers accessible by the given user for the given permissions -->
<select id="selectAccessibleIdentifiers" resultType="string">

    SELECT DISTINCT connection_id
    FROM guacamole_connection_permission
    WHERE
        user_id = #{user.objectID,jdbcType=INTEGER}
        AND connection_id IN
            <foreach collection="identifiers" item="identifier"
                open="(" separator="," close=")">
                #{identifier,jdbcType=INTEGER}::integer
            </foreach>
        AND permission IN
            <foreach collection="permissions" item="permission"
                open="(" separator="," close=")">
                #{permission,jdbcType=VARCHAR}::guacamole_object_permission_type
            </foreach>

</select>

<!-- Delete all given permissions -->
<delete id="delete" parameterType="org.glyptodon.guacamole.auth.jdbc.permission.ObjectPermissionModel">

```

```

DELETE FROM guacamole_connection_permission
WHERE (user_id, permission, connection_id) IN
  <foreach collection="permissions" item="permission"
    open="(" separator="," close=")">
    ({permission.userID,jdbcType=INTEGER},
    #{permission.type,jdbcType=VARCHAR}::guacamole_object_permission_type,
    #{permission.objectIdentifier,jdbcType=INTEGER}::integer)
  </foreach>

</delete>

<!-- Insert all given permissions -->
<insert id="insert" parameterType="org.glyptodon.guacamole.auth.jdbc.permission.ObjectPermissionModel">

  INSERT INTO guacamole_connection_permission (
    user_id,
    permission,
    connection_id
  )
  VALUES
    <foreach collection="permissions" item="permission" separator=",">
    ({permission.userID,jdbcType=INTEGER},
    #{permission.type,jdbcType=VARCHAR}::guacamole_object_permission_type,
    #{permission.objectIdentifier,jdbcType=INTEGER}::integer)
    </foreach>

</insert>

</mapper>
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"
"http://mybatis.org/dtd/mybatis-3-mapper.dtd" >

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-->

```
<mapper namespace="org.glyptodon.guacamole.auth.jdbc.permission.SystemPermissionMapper" >
```

```
<!-- Result mapper for system permissions -->
```

```
<resultMap id="SystemPermissionResultMap"
type="org.glyptodon.guacamole.auth.jdbc.permission.SystemPermissionModel">
  <result column="user_id" property="userID" jdbcType="INTEGER"/>
  <result column="username" property="username" jdbcType="VARCHAR"/>
  <result column="permission" property="type" jdbcType="VARCHAR"
    javaType="org.glyptodon.guacamole.net.auth.permission.SystemPermission$Type"/>
</resultMap>
```

```
<!-- Select all permissions for a given user -->
```

```
<select id="select" resultMap="SystemPermissionResultMap">
```

```
SELECT
  guacamole_system_permission.user_id,
  username,
  permission
FROM guacamole_system_permission
JOIN guacamole_user ON guacamole_system_permission.user_id = guacamole_user.user_id
WHERE guacamole_system_permission.user_id = #{user.objectID,jdbcType=INTEGER}
```

```
</select>
```

```
<!-- Select the single permission matching the given criteria -->
```

```
<select id="selectOne" resultMap="SystemPermissionResultMap">
```

```
SELECT
  guacamole_system_permission.user_id,
  username,
  permission
FROM guacamole_system_permission
JOIN guacamole_user ON guacamole_system_permission.user_id = guacamole_user.user_id
WHERE
  guacamole_system_permission.user_id = #{user.objectID,jdbcType=INTEGER}
  AND permission = #{type,jdbcType=VARCHAR}::guacamole_system_permission_type
```

```
</select>
```

```
<!-- Delete all given permissions -->
```

```

<delete id="delete" parameterType="org.glyptodon.guacamole.auth.jdbc.permission.SystemPermissionModel">

DELETE FROM guacamole_system_permission
WHERE (user_id, permission) IN
  <foreach collection="permissions" item="permission"
    open="(" separator="," close=")">
    ({permission.userID,jdbcType=INTEGER},
    #{permission.type,jdbcType=VARCHAR}::guacamole_system_permission_type)
  </foreach>

</delete>

<!-- Insert all given permissions -->
<insert id="insert" parameterType="org.glyptodon.guacamole.auth.jdbc.permission.SystemPermissionModel">

INSERT INTO guacamole_system_permission (
  user_id,
  permission
)
VALUES
  <foreach collection="permissions" item="permission" separator=",">
    ({permission.userID,jdbcType=INTEGER},
    #{permission.type,jdbcType=VARCHAR}::guacamole_system_permission_type)
  </foreach>

</insert>

</mapper>

```

1.782 guacamole-common-0.9.9.jar 0.9.9

1.783 guacamole-common-js 0.7.2

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Version 1.1

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1.784 guava-20.0.jar 20.0

1.785 guava-25.1-jre.jar 25.1-jre

1.786 guava-26.0-android.jar 26.0-android

1.787 guava-28.2-jre.jar 28.2-jre

1.788 gud-1.0.0.tgz 1.0.0

1.789 guice-3.0.jar 3.0

1.790 guice-assistedinject-3.0.jar 3.0

1.791 h2-1.4.199.jar 1.4.199

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1.792 hamcrest-2.1.jar 2.1

1.793 hamcrest-core-1.3.jar 1.3

1.794 hamcrest-library-1.3.jar 1.3

1.795 handlebars-4.4.3.tgz 4.4.3

1.796 har-schema-2.0.0.tgz 2.0.0

1.797 har-validator-5.1.3.tgz 5.1.3

1.798 has-ansi-2.0.0.tgz 2.0.0

1.799 has-flag-1.0.0.tgz 1.0.0

1.800 has-flag-3.0.0.tgz 3.0.0

1.801 has-flag-4.0.0.tgz 4.0.0

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1.802 has-value-0.3.1.tgz 0.3.1

1.803 has-value-1.0.0.tgz 1.0.0

1.804 has-values-0.1.4.tgz 0.1.4

1.805 has-values-1.0.0.tgz 1.0.0

1.806 hash-0.6.6.tgz 0.6.6

1.807 hazelcast-3.12.3.jar 3.12.3

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```
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 */
```

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

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

```
public class DenyAllPermissionCollection extends PermissionCollection {
```

```
    public DenyAllPermissionCollection() {  
    }
```

```
    @Override  
    public void add(Permission permission) {
```

```

}

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

@Override
public Enumeration<Permission> elements() {
    return new Enumeration<Permission>() {
        @Override
        public boolean hasMoreElements() {
            return false;
        }

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

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

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

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

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*/

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

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

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

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

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

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

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

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

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

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

```
public static final class AllPermissionsCollection extends PermissionCollection {
```

```

private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
private boolean all;

public AllPermissionsCollection() {
}

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

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

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

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

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

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

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

@Override
public boolean equals(Object obj) {
    if (this == obj) {

```

```

        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    AllPermissionsCollection other = (AllPermissionsCollection) obj;
    return all == other.all;
}

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

package com.hazelcast.security.permission;

public class SemaphorePermission extends InstancePermission {

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

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

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

```

```

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

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

package com.hazelcast.security.permission;

import com.hazelcast.internal.usercodedeployment.UserCodeDeploymentService;

public class UserCodeDeploymentPermission extends InstancePermission {

    private static final int DEPLOY = 4;
    private static final int ALL = DEPLOY;

```

```

public UserCodeDeploymentPermission(String... actions) {
    super(UserCodeDeploymentService.SERVICE_NAME, actions);
}

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

        if (ActionConstants.ACTION_USER_CODE_DEPLOY.equals(action)) {
            mask |= DEPLOY;
        }
    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

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

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;

```

```

    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

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

package com.hazelcast.security.permission;

public class ScheduledExecutorPermission
    extends InstancePermission {

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

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

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

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {

```

```

    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }

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

package com.hazelcast.security.permission;

public class CachePermission extends InstancePermission {

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

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

    @Override

```

```

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

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

package com.hazelcast.security.permission;

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

```

```

import java.util.Set;

public class ClusterPermissionCollection extends PermissionCollection {

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

    public ClusterPermissionCollection() {
        permClass = null;
    }

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

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

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

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

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

```

```

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

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

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

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

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

```
public class LockPermission extends InstancePermission {
```

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

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

```
    @Override
```

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

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

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*/

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

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

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

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

```
@Override
```

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

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*/

```

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

```
public class CardinalityEstimatorPermission extends InstancePermission {
```

```
    private static final int READ = 4;
```

```
    private static final int MODIFY = 8;
```

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

```
    public CardinalityEstimatorPermission(String name, String... actions) {
```

```
        super(name, actions);
```

```
    }
```

```
    @Override
```

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

```
        int mask = NONE;
```

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

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

```
                return ALL;
```

```
            }
```

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

```
                mask |= CREATE;
```

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

```
                mask |= READ;
```

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

```
                mask |= MODIFY;
```

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

```
                mask |= DESTROY;
```

```
            }
```

```
        }
```

```
        return mask;
```

```
    }
```

```
}
```

```
/*
```

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*/

```

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

```
/**
```

```

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

```

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

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

```

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

```

```
    @Override
```

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

```
        int mask = NONE;
```

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

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

```
                return ALL;
```

```
            }
```

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

```
                mask |= CREATE;
```

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

```
                mask |= DESTROY;
```

```
            }
```

```
        }
```

```
        return mask;
```

```
    }
```

```
    }
```

```
/**
```

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*/

```

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

```
public class AtomicReferencePermission extends InstancePermission {
```

```
    private static final int READ = 4;
```

```
    private static final int MODIFY = 8;
```

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

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

```

```
    @Override
```

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

```
        int mask = NONE;
```

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

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

```
                return ALL;
```

```
            }

```

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

```
                mask |= CREATE;
```

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

```
                mask |= READ;
```

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

```
                mask |= MODIFY;
```

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

```
                mask |= DESTROY;
```

```
            }

```

```
        }

```

```
        return mask;
    }

```

```
    }
```

```
    }
```

```
    /*
```

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*/

```

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

```
public class ExecutorServicePermission extends InstancePermission {
```

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

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

```

```
    @Override
```

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

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

```

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*/

package com.hazelcast.security.permission;

import java.security.Permission;

/**
 *
 */
public class ConfigPermission extends ClusterPermission {

    private static final String CONFIG_PERMISSION_NAME = "<config>";
    private static final String CONFIG_PERMISSION_ACTIONS = "config";

    public ConfigPermission() {
        super(CONFIG_PERMISSION_NAME);
    }

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

    @Override
    public String getActions() {
        return CONFIG_PERMISSION_ACTIONS;
    }
}
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package com.hazelcast.security.permission;

public class MultiMapPermission extends MapPermission {

```

```

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

package com.hazelcast.security.permission;

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

public abstract class ClusterPermission extends Permission {

    private int hashCode;

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

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

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

```

```

    }
    hashCode = result;
}
return hashCode;
}

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

package com.hazelcast.security.permission;

public class AtomicLongPermission extends InstancePermission {

    private static final int READ = 4;

```

```

private static final int MODIFY = 8;

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

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

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

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

package com.hazelcast.security.permission;

public class TopicPermission extends InstancePermission {

```

```

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

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

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

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

package com.hazelcast.security.permission;

```

```

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {

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

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

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

package com.hazelcast.security.permission;

public class ListPermission extends InstancePermission {

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

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

```

```

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

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

package com.hazelcast.security.permission;

public class MapPermission extends InstancePermission {

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

```

```

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

```

```

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

```

@Override

```

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

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

```

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*/

```

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

```

public class PNCounterPermission extends InstancePermission {

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

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

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

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

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

```
/**
```

```
* Contains Hazelcast client permissions.  
*
```

```
* @see com.hazelcast.security.jsm  
*/
```

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

```
/*
```

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*/
```

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

```
public class ReplicatedMapPermission extends InstancePermission {
```

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

```

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

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

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

```

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*/

package com.hazelcast.security.permission;

public class QueuePermission extends InstancePermission {

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

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

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

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

```

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

```

public class RingBufferPermission extends InstancePermission {

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

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

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

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

```

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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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*/

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

```
import com.hazelcast.config.matcher.WildcardConfigPatternMatcher;
```

```
import java.security.Permission;
```

```
/**
```

```
* TODO: Object Permission
```

```
*/
```

```

public abstract class InstancePermission extends ClusterPermission {

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

    private static final WildcardConfigPatternMatcher CONFIG_PATTERN_MATCHER = new
WildcardConfigPatternMatcher();

    protected final int mask;
    protected final String actions;

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

        final StringBuilder s = new StringBuilder();
        for (String action : actions) {
            s.append(action).append(" ");
        }
        // trim the trailing space
        if (s.length() > 0) {
            s.setLength(s.length() - 1);
        }
        this.actions = s.toString();
    }

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

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

        InstancePermission that = (InstancePermission) permission;

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

```

```

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

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

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

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

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

```
import com.hazelcast.cache.impl.CacheService;
import com.hazelcast.cardinality.impl.CardinalityEstimatorService;
import com.hazelcast.collection.impl.list.ListService;
import com.hazelcast.collection.impl.queue.QueueService;
import com.hazelcast.collection.impl.set.SetService;
import com.hazelcast.concurrent.atomiclong.AtomicLongService;
import com.hazelcast.concurrent.atomicreference.AtomicReferenceService;
import com.hazelcast.concurrent.countdownlatch.CountDownLatchService;
import com.hazelcast.concurrent.idgen.IdGeneratorService;
import com.hazelcast.concurrent.lock.LockService;
import com.hazelcast.concurrent.semaphore.SemaphoreService;
import com.hazelcast.cp.internal.datastructures.atomiclong.RaftAtomicLongService;
import com.hazelcast.cp.internal.datastructures.atomicref.RaftAtomicRefService;
import com.hazelcast.cp.internal.datastructures.countdownlatch.RaftCountDownLatchService;
import com.hazelcast.cp.internal.datastructures.lock.RaftLockService;
import com.hazelcast.cp.internal.datastructures.semaphore.RaftSemaphoreService;
import com.hazelcast.crdt.pncounter.PNCounterService;
import com.hazelcast.durableexecutor.impl.DistributedDurableExecutorService;
import com.hazelcast.executor.impl.DistributedExecutorService;
import com.hazelcast.flakeidgen.impl.FlakeIdGeneratorService;
import com.hazelcast.internal.usercodedeployment.UserCodeDeploymentService;
import com.hazelcast.map.impl.MapService;
import com.hazelcast.mapreduce.impl.MapReduceService;
import com.hazelcast.multimap.impl.MultiMapService;
import com.hazelcast.replicatedmap.impl.ReplicatedMapService;
import com.hazelcast.ringbuffer.impl.RingbufferService;
import com.hazelcast.topic.impl.TopicService;
```

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

```
@SuppressWarnings({"checkstyle:executablestatementcount"})
public final class ActionConstants {
```

```
    public static final String ACTION_ALL = "all";
    public static final String ACTION_CREATE = "create";
    public static final String ACTION_DESTROY = "destroy";
```

```

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

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

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

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

```

```

PERMISSION_FACTORY_MAP.put(SetService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SetPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(AtomicLongService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(RaftAtomicLongService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CountDownLatchService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CountDownLatchPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(RaftCountDownLatchService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CountDownLatchPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(SemaphoreService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SemaphorePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(RaftSemaphoreService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SemaphorePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(TopicService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new TopicPermission(name, actions);
    }
});

```

```

});
PERMISSION_FACTORY_MAP.put(LockService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new LockPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(RaftLockService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new LockPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedExecutorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ExecutorServicePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(IdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(IdGeneratorService.ATOMIC_LONG_NAME + name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(FlakeIdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new FlakeIdGeneratorPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(MapReduceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new MapReducePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(ReplicatedMapService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ReplicatedMapPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(AtomicReferenceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicReferencePermission(name, actions);
    }
});

```

```

    }
});
PERMISSION_FACTORY_MAP.put(RaftAtomicRefService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicReferencePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CacheService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CachePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(RingbufferService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new RingBufferPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedDurableExecutorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new DurableExecutorServicePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CardinalityEstimatorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CardinalityEstimatorPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(UserCodeDeploymentService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new UserCodeDeploymentPermission(actions);
    }
});
PERMISSION_FACTORY_MAP.put(PNCounterService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new PNCounterPermission(name, actions);
    }
});
}

```

```

private ActionConstants() {
}

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

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

    return permissionFactory.create(name, actions);
}

}

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 */

package com.hazelcast.security.permission;

public class SetPermission extends ListPermission {

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

```

```

    super(name, actions);
}
}
/*
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 *
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 * limitations under the License.
 */

package com.hazelcast.security.permission;

public class FlakeIdGeneratorPermission extends InstancePermission {

    private static final int MODIFY = 4;

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

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

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

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

```

```
}  
}  
Copyright (c) 2013, 2014 EclipseSource
```

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1.808 hazelcast-3.7.8.jar 3.7.8

1.809 hazelcast-client-3.12.3.jar 3.12.3

1.810 hazelcast-spring-3.12.3.jar 3.12.3

1.811 HdrHistogram-2.1.11.jar 2.1.11

1.812 helper-annotate-as-pure-7.8.3.tgz 7.8.3

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1.813 helper-function-name-7.8.3.tgz 7.8.3

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1.814 helper-get-function-arity-7.8.3.tgz 7.8.3

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1.815 helper-module-imports-7.8.3.tgz 7.8.3

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1.816 helper-split-export-declaration-7.8.3.tgz

7.8.3

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1.817 hibernate-commons-annotations-5.0.1.Final.jar 5.0.1.Final

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```
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 * MA 02110-1301, USA.
 */
```

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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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1.820 hibernate-core-5.4.3.Final.jar 5.4.3.Final

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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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```

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

That's all there is to it!

1.823 hibernate-entitymanager-5.4.3.Final.jar

5.4.3.Final

1.824 hibernate-jpa-2.1-api-1.0.0.Final.jar

1.0.0.Final

1.824.1 Available under license :

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 * at http://www.eclipse.org/legal/epl-v10.html and the Eclipse Distribution License
 * is available at http://www.eclipse.org/org/documents/edl-v10.php.
 */
package javax.persistence;

import java.lang.annotation.Retention;
import java.lang.annotation.Target;

import static java.lang.annotation.ElementType.FIELD;
import static java.lang.annotation.ElementType.METHOD;
import static java.lang.annotation.ElementType.TYPE;
import static java.lang.annotation.RetentionPolicy.RUNTIME;

/**
 * Used to specify an access type to be applied to an entity class,
 * mapped superclass, or embeddable class, or to a specific attribute
 * of such a class.
 *
 * @since Java Persistence 2.0
 */
@Target( { TYPE, METHOD, FIELD })
@Retention(RUNTIME)
public @interface Access {

    /**
     * (Required) Specification of field- or property-based access.
     */
    AccessType value();
}
```

}

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1.825 hibernate-validator-5.3.6.Final.jar

5.3.6.Final

1.826 hibernate-validator-5.4.2.Final.jar

5.4.2.Final

1.827 hibernate-validator-6.0.18.Final.jar 6.0.18.Final

1.828 hibernate-validator-annotation-processor-4.1.0.Final.jar 4.1.0.Final

1.829 highlight-7.5.0.tgz 7.5.0

1.830 highlight-7.8.3.tgz 7.8.3

1.830.1 Available under license :

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1.831 highlight.js-9.12.0.tgz 9.12.0

1.832 HikariCP-2.5.1.jar 2.5.1

1.833 HikariCP-java7-2.4.13.jar 2.4.13

1.834 history-4.10.1.tgz 4.10.1

1.835 history-4.7.2.tgz 4.7.2

1.836 hk2-api-2.5.0-b32.jar 2.5.0-b32

1.837 hk2-locator-2.5.0-b32.jar 2.5.0-b32

1.838 hk2-utils-2.5.0-b32.jar 2.5.0-b32

1.839 hoist-non-react-statics-1.2.0.tgz 1.2.0

1.840 hoist-non-react-statics-2.5.5.tgz 2.5.5

1.841 hoist-non-react-statics-3.2.1.tgz 3.2.1

1.842 hoist-non-react-statics-3.3.0.tgz 3.3.0

1.843 hoist-non-react-statics-3.3.2.tgz 3.3.2

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1.844 html-parse-stringify2-2.0.1.tgz 2.0.1

1.845 http-client-1.1.1.RELEASE.jar 1.1.1.RELEASE

1.846 http-signature-1.2.0.tgz 1.2.0

1.847 httpclient-4.5.11.jar 4.5.11

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1.849 httpclient-4.5.6.jar 4.5.6

1.850 httpclient-4.5.9.jar 4.5.9

1.851 httpclient-4.5.jar 4.5

1.852 httpcore-4.4.1.jar 4.4.1

1.853 httpcore-4.4.11.jar 4.4.11

1.854 httpcore-4.4.13.jar 4.4.13

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1.856 i18n-js 2.0.1

1.857 i18next-15.0.9.tgz 15.0.9

1.858 i18next-15.1.3.tgz 15.1.3

1.859 i18next-17.2.0.tgz 17.2.0

1.860 i18next-browser-languagedetector-3.1.1.tgz 3.1.1

1.861 i18next-browser-languagedetector-4.0.0.tgz 4.0.0

1.862 i18next-xhr-backend-2.0.1.tgz 2.0.1

1.863 i18next-xhr-backend-3.2.0.tgz 3.2.0

1.864 iconv-lite-0.4.24.tgz 0.4.24

1.865 ieee754-1.1.13.tgz 1.1.13

1.866 ignore-3.3.10.tgz 3.3.10

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1.870 immer-3.1.3.tgz 3.1.3

1.871 immutable-3.8.2.tgz 3.8.2

1.872 immutable-4.0.0-rc.2.tgz 4.0.0-rc.2

1.873 import-fresh-2.0.0.tgz 2.0.0

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1.877 imurmurhash-0.1.4.tgz 0.1.4

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1.891 ion-java-1.0.2.jar 1.0.2

1.892 ip-regex-2.1.0.tgz 2.1.0

1.893 is-accessor-descriptor-0.1.6.tgz 0.1.6

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1.905 is-directory-0.3.1.tgz 0.3.1

1.906 is-dom-1.1.0.tgz 1.1.0

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1.917 is-path-inside-3.0.2.tgz 3.0.2

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1.925 is-windows-1.0.2.tgz 1.0.2

1.926 isexe-2.0.0.tgz 2.0.0

1.927 isomorphic-fetch-2.2.1.tgz 2.2.1

1.928 isstream-0.1.2.tgz 0.1.2

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package com.sun.istack;

import org.xml.sax.helpers.XMLFilterImpl;
import org.xml.sax.SAXException;
import org.xml.sax.XMLReader;
import org.xml.sax.ContentHandler;

/**
 * {@link XMLFilterImpl} that masks start/end document SAX events.
 * @author Kohsuke Kawaguchi
 */
public class FragmentContentHandler extends XMLFilterImpl {
    public FragmentContentHandler() {
    }

    public FragmentContentHandler(XMLReader parent) {
        super(parent);
    }

    public FragmentContentHandler(ContentHandler handler) {
        super();
        setContentHandler(handler);
    }

    public void startDocument() throws SAXException {
        // noop
    }

    public void endDocument() throws SAXException {
        // noop
    }
}

```

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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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Source Code

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

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1.952 jakarta.validation-api-2.0.2.jar 2.0.2

1.953 jakarta.xml.bind-api-2.3.2.jar 2.3.2

1.954 jandex-2.0.0.Final.jar 2.0.0.Final

1.955 jandex-2.0.5.Final.jar 2.0.5.Final

1.956 java-jwt-3.3.0.jar 3.3.0

1.957 java-xmlbuilder-0.4.jar 0.4

1.958 javassist-3.12.1.GA.jar 3.12.1.GA

1.958.1 Available under license :

```
/*
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 *
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 * for the specific language governing rights and limitations under the
 * License.
 */
```

```
package javassist;
```

```
import java.io.*;
import java.net.URL;
import java.net.MalformedURLException;
```

```
/**
 * A ByteArrayClassPath contains bytes that is served as
 * a class file to a ClassPool. It is useful to convert
 * a byte array to a CtClass object.
 *
 * 

For example, if you want to convert a byte array b
 * into a CtClass object representing the class with a name
 * classname, then do as following:


 *
 * 



```

 * ClassPool cp = ClassPool.getDefault();
 * cp.insertClassPath(new ByteArrayClassPath(classname, b));
 * CtClass cc = cp.get(classname);
 *
```



 *
 * 

The ClassPool object cp uses the created
 * ByteArrayClassPath object as the source of the class file.


 *
 * 

A ByteArrayClassPath must be instantiated for every
 * class. It contains only a single class file.


 *
 * @see javassist.ClassPath
 * @see ClassPool#insertClassPath(ClassPath)
 * @see ClassPool#appendClassPath(ClassPath)
 * @see ClassPool#makeClass(InputStream)
```

```

*/
public class ByteArrayClassPath implements ClassPath {
    protected String classname;
    protected byte[] classfile;

    /*
     * Creates a <code>ByteArrayClassPath</code> containing the given
     * bytes.
     *
     * @param name      a fully qualified class name
     * @param classfile the contents of a class file.
     */
    public ByteArrayClassPath(String name, byte[] classfile) {
        this.classname = name;
        this.classfile = classfile;
    }

    /**
     * Closes this class path.
     */
    public void close() {}

    public String toString() {
        return "byte[]:" + classname;
    }

    /**
     * Opens the class file.
     */
    public InputStream openClassfile(String classname) {
        if(this.classname.equals(classname))
            return new ByteArrayInputStream(classfile);
        else
            return null;
    }

    /**
     * Obtains the URL.
     */
    public URL find(String classname) {
        if(this.classname.equals(classname)) {
            String cname = classname.replace('.', '/') + ".class";
            try {
                // return new File(cname).toURL();
                return new URL("file:/ByteArrayClassPath/" + cname);
            }
            catch (MalformedURLException e) {}
        }
    }
}

```

```
    return null;
  }
}
```

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Version 2.1, February 1999

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<br/>
Version: 1.5
<br/>
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* Contributors:

* Petros Splinakis - Java Persistence 2.2

* Linda DeMichiel - Java Persistence 2.0 - Version 2.0 (October 1 - 2013)

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1.975 jaxb-core-2.3.0.jar 2.3.0

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```
import com.sun.xml.txw2.TXW;
import com.sun.xml.txw2.output.DumpSerializer;

import javax.xml.namespace.QName;

/**
 * @author Kohsuke Kawaguchi
 */
public class Main {
    public static void main(String[] args) {
        NameCards root = TXW.create(NameCards.class, new DumpSerializer(System.out));

        NameCard nc = root.nameCard();
        nc.id(3);
        nc.test2(new QName("uri", "local"));
        nc.name("Kohsuke");
        nc.address("California");
        nc.test(new QName("", "local"));

        root.commit();
    }
}
```

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1.989 jclouds-core-1.6.0.jar 1.6.0

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1.993 jcodings-1.0.41.jar 1.0.41

1.994 jcommander-1.35.jar 1.35

1.995 jcr-2.0.jar 2.0

1.996 jdbc-1.12.2.jar 1.12.2

1.997 jdo-api-3.0.1.jar 3.0.1

1.998 jdom2-2.0.5.jar 2.0.5

1.999 jdom2-2.0.6.jar 2.0.6

1.1000 jersey-client-2.25.1.jar 2.25.1

1.1001 jersey-common-2.25.1.jar 2.25.1

1.1002 jersey-guava-2.25.1.jar 2.25.1

1.1003 jersey-media-jaxb-2.25.1.jar 2.25.1

1.1004 jffi-1.2.18.jar 1.2.18

1.1005 jgroups-3.6.10.Final.jar 3.6.10.Final

1.1006 jkeylockmanager-1.1.0.jar 1.1.0

1.1007 jmespath-java-1.11.125.jar 1.11.125

1.1008 jmespath-java-1.11.538.jar 1.11.538

1.1009 jmespath-java-1.11.620.jar 1.11.620

1.1010 jna-4.2.2.jar 4.2.2

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*/

```
package com.sun.jna.win32;
```

```
import com.sun.jna.AltCallingConvention;
```

```
/** Tagging interface for __stdcall calling convention. */
```

```
public interface StdCall extends AltCallingConvention { }
```

```
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```

```
Version 2.1, February 1999
```

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1.1011 jna-platform-4.2.2.jar 4.2.2

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package com.sun.jna.platform.mac;

import java.nio.IntBuffer;
import java.util.Arrays;
import java.util.List;

import com.sun.jna.Library;
import com.sun.jna.Callback;
import com.sun.jna.Native;
import com.sun.jna.Pointer;
import com.sun.jna.Structure;
import com.sun.jna.ptr.PointerByReference;

/**
 * Author: Denis Tulskiy
 * Date: 7/25/11
 */
public interface Carbon extends Library {
    public static Carbon INSTANCE = (Carbon) Native.loadLibrary("Carbon", Carbon.class);

    public static final int cmdKey = 0x0100;
    public static final int shiftKey = 0x0200;
    public static final int optionKey = 0x0800;
    public static final int controlKey = 0x1000;

    /**
     * Obtains the event target reference for the standard toolbox dispatcher
     */
}
```

```

    * @return event dispatcher reference
    */
    public Pointer GetEventDispatcherTarget();

    /**
     * Installs an event handler on a specified event target.
     */
    public int InstallEventHandler(Pointer inTarget, EventHandlerProcPtr inHandler, int inNumTypes,
    EventTypeSpec[] inList, Pointer inUserData, PointerByReference outRef);

    /**
     * Registers a global hot key.
     */
    public int RegisterEventHotKey(int inHotKeyCode, int inHotKeyModifiers, EventHotKeyID.ByValue
    inHotKeyID, Pointer inTarget, int inOptions, PointerByReference outRef);

    /**
     * Obtains a parameter from the specified event.
     */
    public int GetEventParameter(Pointer inEvent, int inName, int inDesiredType, Pointer outActualType, int
    inBufferSize, IntBuffer outActualSize, EventHotKeyID outData);

    /**
     * Removes the specified event handler
     */
    public int RemoveEventHandler(Pointer inHandlerRef);

    /**
     * Unregisters a global hot key.
     */
    public int UnregisterEventHotKey(Pointer inHotKey);

    public class EventTypeSpec extends Structure {
        public int eventClass;
        public int eventKind;
        protected List getFieldOrder() {
            return Arrays.asList(new String[] { "eventClass", "eventKind" }); }
    }

    public static class EventHotKeyID extends Structure {
        public int signature;
        public int id;

        public static class ByValue extends EventHotKeyID implements Structure.ByValue { }
        protected List getFieldOrder() {
            return Arrays.asList(new String[] { "signature", "id" }); }
    }

```

```
public static interface EventHandlerProcPtr extends Callback {
    public int callback(Pointer inHandlerCallRef, Pointer inEvent, Pointer inUserData);
}
}
```

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Version 3, 29 June 2007

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1.1012 jnats-1.0.jar 1.0

1.1013 jnr-constants-0.9.12.jar 0.9.12

1.1014 jnr-enxio-0.19.jar 0.19

1.1015 jnr-netdb-1.1.6.jar 1.1.6

1.1016 jnr-posix-3.0.47.jar 3.0.47

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/**
 * $Id: $
 */

package jnr.posix;

import jnr.ffi.NativeType;
import jnr.ffi.StructLayout;

/**
 * This corresponds with struct stat64x on AIX
 */
public final class AixFileStat extends BaseFileStat implements NanosecondFileStat {
    private static final class Layout extends StructLayout {

        private Layout(jnr.ffi.Runtime runtime) {
            super(runtime);
        }
    }
}
```

```

    }

    public final Unsigned64 st_dev = new Unsigned64();
    public final Signed64 st_ino = new Signed64();
    public final Unsigned32 st_mode = new Unsigned32();
    public final Signed16 st_nlink = new Signed16();
    public final Unsigned16 st_flag = new Unsigned16();
    public final Unsigned32 st_uid = new Unsigned32();
    public final Unsigned32 st_gid = new Unsigned32();
    public final Unsigned64 st_rdev = new Unsigned64();
    public final Signed64 st_size = new Signed64();
    public final Signed64 st_atime = new Signed64();
    public final Signed32 st_atime_n = new Signed32();
    public final Signed32 st_pad1 = new Signed32();

    public final Signed64 st_mtime = new Signed64();
    public final Signed32 st_mtime_n = new Signed32();
    public final Signed32 st_pad2 = new Signed32();

    public final Signed64 st_ctime = new Signed64();
    public final Signed32 st_ctime_n = new Signed32();
    public final Signed32 st_pad3 = new Signed32();

    public final Unsigned64 st_blksize = new Unsigned64();
    public final Unsigned64 st_blocks = new Unsigned64();
    public final Signed32 st_vfstype = new Signed32();

    public final Unsigned32 st_vfs = new Unsigned32();
    public final Unsigned32 st_type = new Unsigned32();
    public final Unsigned32 st_gen = new Unsigned32();
    public final Padding st_reserved = new Padding(NativeType.UINT, 11);
    /* total size should be 176 bytes */
}
private static final Layout layout = new Layout(jnr.ffi.Runtime.getSystemRuntime());

public AixFileStat(NativePOSIX posix) {
    super(posix, layout);
}

public long atime() {
    return layout.st_atime.get(memory);
}

public long blocks() {
    return layout.st_blocks.get(memory);
}

public long blockSize() {

```

```

    return layout.st_blksize.get(memory);
}

public long ctime() {
    return layout.st_ctime.get(memory);
}

public long dev() {
    return layout.st_dev.get(memory);
}

public int gid() {
    return (int) layout.st_gid.get(memory);
}

public long ino() {
    return layout.st_ino.get(memory);
}

public int mode() {
    return (int) layout.st_mode.get(memory) & 0xffff;
}

public long mtime() {
    return layout.st_mtime.get(memory);
}

public int nlink() {
    return (int) layout.st_nlink.get(memory);
}

public long rdev() {
    return layout.st_rdev.get(memory);
}

public long st_size() {
    return layout.st_size.get(memory);
}

public int uid() {
    return (int) layout.st_uid.get(memory);
}

@Override
public long aTimeNanoSecs() {
    return layout.st_atime_n.get(memory);
}

```

```
@Override
public long cTimeNanoSecs() {
    return layout.st_ctime_n.get(memory);
}
```

```
@Override
public long mTimeNanoSecs() {
    return layout.st_mtime_n.get(memory);
}
}
```

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1.1020 joda-time-2.9.9.jar 2.9.9

1.1021 joni-2.1.25.jar 2.1.25

1.1022 jopt-simple-5.0.3.jar 5.0.3

1.1023 jquery 3.0.0

1.1023.1 Available under license :

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1.1024 jQuery 2.1.0

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*

* Date: 2014-01-23T21:10Z

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1.1025 jquery-3.3.6.tgz 3.3.6

1.1026 jquery-3.4.1.tgz 3.4.1

1.1027 jquery-color 2.1.2

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1.1028 jquery-ui-1.12.1.tgz 1.12.1

1.1029 jquery.transit.min 0.9.9

1.1030 jruby-9.2.5.0.jar 9.2.5.0

1.1031 jruby-core-9.2.5.0.jar 9.2.5.0

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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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```
# frozen_string_literal: true
require 'rubygems/text'
```

```
class Gem::Licenses
```

extend Gem::Text

NONSTANDARD = 'Nonstandard'.freeze

Software Package Data Exchange (SPDX) standard open-source software

license identifiers

IDENTIFIERS = %w(

0BSD

AAL

ADSL

AFL-1.1

AFL-1.2

AFL-2.0

AFL-2.1

AFL-3.0

AGPL-1.0

AGPL-3.0

AMDPLPA

AML

AMPAS

ANTLR-PD

APAFML

APL-1.0

APSL-1.0

APSL-1.1

APSL-1.2

APSL-2.0

Abstyles

Adobe-2006

Adobe-Glyph

Afmparse

Aladdin

Apache-1.0

Apache-1.1

Apache-2.0

Artistic-1.0

Artistic-1.0-Perl

Artistic-1.0-cl8

Artistic-2.0

BSD-2-Clause

BSD-2-Clause-FreeBSD

BSD-2-Clause-NetBSD

BSD-3-Clause

BSD-3-Clause-Attribution

BSD-3-Clause-Clear

BSD-3-Clause-LBNL

BSD-3-Clause-No-Nuclear-License

BSD-3-Clause-No-Nuclear-License-2014

BSD-3-Clause-No-Nuclear-Warranty
BSD-4-Clause
BSD-4-Clause-UC
BSD-Protection
BSD-Source-Code
BSL-1.0
Bahyph
Barr
Beerware
BitTorrent-1.0
BitTorrent-1.1
Borceux
CATOSL-1.1
CC-BY-1.0
CC-BY-2.0
CC-BY-2.5
CC-BY-3.0
CC-BY-4.0
CC-BY-NC-1.0
CC-BY-NC-2.0
CC-BY-NC-2.5
CC-BY-NC-3.0
CC-BY-NC-4.0
CC-BY-NC-ND-1.0
CC-BY-NC-ND-2.0
CC-BY-NC-ND-2.5
CC-BY-NC-ND-3.0
CC-BY-NC-ND-4.0
CC-BY-NC-SA-1.0
CC-BY-NC-SA-2.0
CC-BY-NC-SA-2.5
CC-BY-NC-SA-3.0
CC-BY-NC-SA-4.0
CC-BY-ND-1.0
CC-BY-ND-2.0
CC-BY-ND-2.5
CC-BY-ND-3.0
CC-BY-ND-4.0
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CDDL-1.1
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CECILL-1.1

CECILL-2.0
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CPOL-1.02
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Crossword
CrystalStacker
Cube
D-FSL-1.0
DOC
DSDP
Dotseqn
ECL-1.0
ECL-2.0
EFL-1.0
EFL-2.0
EPL-1.0
EUDatagrid
EUPL-1.0
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GPL-1.0
GPL-1.0+
GPL-2.0
GPL-2.0+
GPL-2.0-with-GCC-exception

GPL-2.0-with-autoconf-exception
GPL-2.0-with-bison-exception
GPL-2.0-with-classpath-exception
GPL-2.0-with-font-exception
GPL-3.0
GPL-3.0+
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Glide
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LAL-1.2
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LGPL-2.0+
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LGPL-3.0+
LGPLLR
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NASA-1.3
NBPL-1.0
NCSA
NGPL
NLOD-1.0
NLPL
NOSL
NPL-1.0
NPL-1.1
NPOSL-3.0
NRL
NTP
Naumen
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Nokia
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OCCT-PL
OCLC-2.0
ODbL-1.0
OFL-1.0
OFL-1.1
OGTSL
OLDAP-1.1
OLDAP-1.2
OLDAP-1.3
OLDAP-1.4

OLDAP-2.0
OLDAP-2.0.1
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OLDAP-2.2.2
OLDAP-2.3
OLDAP-2.4
OLDAP-2.5
OLDAP-2.6
OLDAP-2.7
OLDAP-2.8
OML
OPL-1.0
OSET-PL-2.1
OSL-1.0
OSL-1.1
OSL-2.0
OSL-2.1
OSL-3.0
OpenSSL
PDDL-1.0
PHP-3.0
PHP-3.01
Plexus
PostgreSQL
Python-2.0
QPL-1.0
Qhull
RHeCos-1.1
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RPSL-1.0
RSA-MD
RSCPL
Rdisc
Ruby
SAX-PD
SCEA
SGI-B-1.0
SGI-B-1.1
SGI-B-2.0
SISSL
SISSL-1.2
SMLNJ
SMPPL
SNIA
SPL-1.0

SWL
Saxpath
Sendmail
SimPL-2.0
Sleepycat
Spencer-86
Spencer-94
Spencer-99
StandardML-NJ
SugarCRM-1.1.3
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TMate
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X11
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XSkat
Xerox
Xnet
YPL-1.0
YPL-1.1
ZPL-1.1
ZPL-2.0
ZPL-2.1
Zed
Zend-2.0
Zimbra-1.3
Zimbra-1.4
Zlib
bzip2-1.0.5
bzip2-1.0.6
curl

```
diffmark
dviPDFm
eCos-2.0
eGenix
gSOAP-1.3b
gnuplot
iMatix
libtiff
mpich2
psfrag
psutils
xinetd
xpp
zlib-acknowledgement
).freeze
```

```
REGEXP = %r{
  \A
  (
    #{Regexp.union(IDENTIFIERS)}
    \+?
    (\s WITH \s .+)?
    | #{NONSTANDARD}
  )
  \Z
}ox.freeze
```

```
def self.match?(license)
  !REGEXP.match(license).nil?
end
```

```
def self.suggestions(license)
  by_distance = IDENTIFIERS.group_by do |identifier|
    levenshtein_distance(identifier, license)
  end
  lowest = by_distance.keys.min
  return unless lowest < license.size
  by_distance[lowest]
end
end
```

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!"&'L java/io/PrintStream; L java/lang/String; () L java/lang/String; (L java/lang/String;) V (L java/lang/String;) V-
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@ABH/YDFGFGFFGF

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/**

* JSONSchema Validator - Validates JavaScript objects using JSON Schemas

* (<http://www.json.com/json-schema-proposal/>)

*

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

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

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

"property" which indicates which property had the error

"message" which indicates what the error was

*/

1.1044 json-schema-core-1.2.10.jar 1.2.10

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Version 3, 29 June 2007

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1.1045 json-schema-traverse-0.3.1.tgz 0.3.1

1.1046 json-schema-traverse-0.4.1.tgz 0.4.1

1.1047 json-schema-validator-2.2.11.jar 2.2.11

1.1047.1 Available under license :

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*/

```
package com.github.fge.jsonschema.format;
```

```
import com.github.fge.jackson.NodeType;
```

```
import com.github.fge.jsonschema.core.report.ProcessingMessage;
```

```
import com.github.fge.jsonschema.processors.data.FullData;
```

```
import com.github.fge.msgsimple.bundle.MessageBundle;
```

```
import java.util.EnumSet;
```

```
/**
```

```
* Base abstract class for a format attribute
```

```
*
```

```

* <p>You should really use this class instead of implementing { @link
* FormatAttribute} directly. Its main, but important, helping role is to
* build the list of supported types for you.</p>
*/
public abstract class AbstractFormatAttribute
    implements FormatAttribute
{
    /**
     * The set of supported types
     */
    private final EnumSet<NodeType> supported;

    /**
     * The name of the format attribute
     */
    private final String fmt;

    /**
     * Protected constructor
     *
     * @param fmt the name for this format attribute
     * @param first first supported type
     * @param other other supported types, if any
     *
     * @see #supportedTypes()
     */
    protected AbstractFormatAttribute(final String fmt, final NodeType first,
        final NodeType... other)
    {
        this.fmt = fmt;
        supported = EnumSet.of(first, other);
    }

    @Override
    public final EnumSet<NodeType> supportedTypes()
    {
        return EnumSet.copyOf(supported);
    }

    /**
     * Return a new message for this format attribute
     *
     * @param data the validation context
     * @param key key in the format bundle message
     * @return a new message
     */
    protected final ProcessingMessage newMsg(final FullData data,
        final MessageBundle bundle, final String key)

```

```
{
  return data.newMessage().put("domain", "validation")
    .put("keyword", "format").put("attribute", fmt)
    .setMessage(bundle.getMessage(key))
    .put("value", data.getInstance().getNode());
}
}
```

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Version 3, 29 June 2007

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1.1048 json-simple-1.1.1.jar 1.1.1

1.1049 json-smart-2.2.1.jar 2.2.1

1.1050 json-smart-2.3.jar 2.3

1.1051 json-stable-stringify-without-jsonify-1.0.1.tgz 1.0.1

1.1052 json-stringify-pretty-compact-1.2.0.tgz 1.2.0

1.1053 json-stringify-safe-5.0.1.tgz 5.0.1

1.1054 json5-0.5.1.tgz 0.5.1

1.1055 json5-1.0.1.tgz 1.0.1

1.1056 json5-2.1.1.tgz 2.1.1

1.1057 jsonassert-1.4.0.jar 1.4.0

1.1058 jsonassert-1.5.0.jar 1.5.0

1.1059 jsonfile-4.0.0.tgz 4.0.0

1.1060 jsprim-1.4.1.tgz 1.4.1

1.1061 jsr250-api-1.0.jar 1.0

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 */

/*
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 */

package javax.annotation.security;
import java.lang.annotation.*;
import static java.lang.annotation.ElementType.*;
import static java.lang.annotation.RetentionPolicy.*;

/**
 * Used by application to declare roles. It can be
 * specified on a class.
 */
```

* @since Common Annotations 1.0

*/

@Documented

@Retention (RUNTIME)

@Target(TYPE)

public @interface DeclareRoles {

String[] value();

}

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1.1062 jsr305 1.3.9

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AppleJavaExtensions

v 1.2

This is a pluggable jar of stub classes representing the new Apple eAWT and eIO APIs for Java 1.4 on Mac OS X. The purpose of these stubs is to allow for compilation of eAWT- or eIO-referencing code on platforms other than Mac OS X. The jar file is enclosed in a zip archive for easy expansion on other platforms.

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<p>

Version 2.1, February 1999

</p><p>

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</p><p>

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</p><p>

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</p><p>

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</p><p>

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</p>

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CONTENTS

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- * Documentation Location

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AppleJavaExtensions
v 1.2

<http://developer.apple.com/samplecode/AppleJavaExtensions/AppleJavaExtensions.html>

This is a pluggable jar of stub classes representing the new Apple eAWT and eIO APIs for Java 1.4 on Mac OS X. The purpose of these stubs is to allow for compilation of eAWT- or eIO-referencing code on platforms other than Mac OS X. These stubs are not intended for the runtime classpath on non-Mac platforms. Please see the OSXAdapter sample for how to write cross-platform code that uses eAWT.

There is no license file provided for AppleJavaExtensions.jar. Below is a response from Apple to a question about the license.

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1.1063 jsr305-3.0.1.jar 3.0.1

1.1064 jsr305-3.0.2.jar 3.0.2

1.1065 jsr311-api-1.1.1.jar 1.1.1

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 */
```

```
/*
 * ApplicationPath.java
 *
 * Created on August 21, 2009
 *
 */
```

```
package javax.ws.rs;
```

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

```

import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * Identifies the application path that serves as the base URI
 * for all resource URIs provided by { @link javax.ws.rs.Path}. May only be
 * applied to a subclass of { @link javax.ws.rs.core.Application}.
 *
 * <p>When published in a Servlet container, the value of the application path
 * may be overridden using a servlet-mapping element in the web.xml.</p>
 *
 * @see javax.ws.rs.core.Application
 * @see Path
 * @since 1.1
 */
@Target({ElementType.TYPE})
@Retention(RetentionPolicy.RUNTIME)
public @interface ApplicationPath {
    /**
     * Defines the base URI for all resource URIs. A trailing '/' character will
     * be automatically appended if one is not present.
     *
     * <p>The supplied value is automatically percent
     * encoded to conform to the { @code path} production of
     * { @link <a href="http://tools.ietf.org/html/rfc3986#section-3.3">RFC 3986 section 3.3</a>}.
     * Note that percent encoded values are allowed in the value, an
     * implementation will recognize such values and will not double
     * encode the '%' character.</p>
     */
    String value();
}

```

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1.1066 jstl-1.2.jar 1.2

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 */
```

```
package org.apache.taglibs.standard;
```

```
/**
 * [lifted from xalan]
 * <meta name="usage" content="general"/>
 * Administrative class to keep track of the version number of
 * the standard tag library.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.
 */
```

```
public class Version
```

```
{
```

```
/**
 * Get the basic version string for the current release.
 * Version String formatted like
 * <CODE>"<B>standard-taglib</B> v.r[.dd] <B>D</B>"</CODE>.
 */
```

```

* Futurework: have this read version info from jar manifest.
*
* @return String denoting our current version
*/
public static String getVersion()
{
    return getProduct() + " " +
        getMajorVersionNum() + "." + getReleaseVersionNum() + "." +
        getMaintenanceVersionNum() +
        ((getDevelopmentVersionNum() > 0) ?
            ("_D" + getDevelopmentVersionNum()) : "");
}

/**
* Print the processor version to the command line.
*
* @param argv command line arguments, unused.
*/
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
* Name of product
*/
public static String getProduct()
{
    return "standard-taglib";
}

/**
* Major version number.
* Version number. This changes only when there is a
*     significant, externally apparent enhancement from
*     the previous release. 'n' represents the n'th
*     version.
*
*     Clients should carefully consider the implications
*     of new versions as external interfaces and behaviour
*     may have changed.
*/
public static int getMajorVersionNum()
{
    return 1;
}

/**

```

```

* Release Number.
* Release number. This changes when:
*     - a new set of functionality is to be added, eg,
*       implementation of a new W3C specification.
*     - API or behaviour change.
*     - its designated as a reference release.
*/
public static int getReleaseVersionNum()
{
    return 2;
}

/**
* Maintenance Drop Number.
* Optional identifier used to designate maintenance
* drop applied to a specific release and contains
* fixes for defects reported. It maintains compatibility
* with the release and contains no API changes.
* When missing, it designates the final and complete
* development drop for a release.
*/
public static int getMaintenanceVersionNum()
{
    return 0;
}

/**
* Development Drop Number.
* Optional identifier designates development drop of
* a specific release. D01 is the first development drop
* of a new release.
*
* Development drops are works in progress towards a
* completed, final release. A specific development drop
* may not completely implement all aspects of a new
* feature, which may take several development drops to
* complete. At the point of the final drop for the
* release, the D suffix will be omitted.
*
* Each 'D' drops can contain functional enhancements as
* well as defect fixes. 'D' drops may not be as stable as
* the final releases.
*/
public static int getDevelopmentVersionNum()
{
    return 0;
}
}

```

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1.1068 jsx-to-string-1.1.0.tgz 1.1.0

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```

```
package javax.transaction;
```

```
/**
```

```
* This exception is thrown by the rollback operation on a resource to
* report that a heuristic decision was made and that all relevant updates
* have been committed.
```

```
*/
```

```
public class HeuristicCommitException extends java.lang.Exception
```

```
{
```

```
    public HeuristicCommitException()
```

```
    {
```

```
        super();
```

```
    }
```

```
    public HeuristicCommitException(String msg)
```

```
    {
```

```
        super(msg);
```

```
    }
```

```
}
```

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1.1073 junit-jupiter-5.5.2.jar 5.5.2

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1.1074 junit-jupiter-api-5.5.2.jar 5.5.2

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1.1075 junit-jupiter-engine-5.5.2.jar 5.5.2

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1.1076 junit-jupiter-params-5.5.2.jar 5.5.2

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1.1077 junit-platform-commons-1.5.2.jar 1.5.2

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1.1078 junit-platform-engine-1.5.2.jar 1.5.2

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1.1079 junit-vintage-engine-5.5.2.jar 5.5.2

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1.1080 junixsocket-common-2.0.4.jar 2.0.4

1.1081 junixsocket-native-common-2.0.4.jar 2.0.4

1.1082 jzlib-1.1.3.jar 1.1.3

1.1083 keymirror-0.1.1.tgz 0.1.1

1.1084 kubernetes-client 3.1.9.1

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1.1085 kubernetes-client-2.2.0.jar 2.2.0

1.1086 kubernetes-client-4.1.1.jar 4.1.1

1.1087 kubernetes-client-4.2.2.jar 4.2.2

1.1088 kubernetes-model-1.0.67.jar 1.0.67

**1.1089 kubernetes-model-2.0.8.1.3-CLIQR-
RELEASE.jar 2.0.8.1.3-CLIQR-RELEASE**

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 */
```

```
package io.fabric8.kubernetes.api.model;
```

```
public interface Doneable<T> {
```

```
    T done();
```

```
}
```

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```
Version 2.0, January 2004
```

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1.1090 kubernetes-model-4.1.1.jar 4.1.1

1.1091 kubernetes-model-4.2.2.jar 4.2.2

**1.1092 kubernetes-model-common-4.2.2.jar
4.2.2**

1.1093 lang-tag-1.4.4.jar 1.4.4

1.1094 LatencyUtils-2.0.3.jar 2.0.3

1.1095 lazy-ass-1.6.0.tgz 1.6.0

1.1096 left-pad-1.3.0.tgz 1.3.0

1.1097 levn-0.3.0.tgz 0.3.0

1.1098 libphonenumber-8.0.0.jar 8.0.0

1.1099 lines-and-columns-1.1.6.tgz 1.1.6

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1.1100 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

1.1101 listr-0.12.0.tgz 0.12.0

1.1102 listr-0.14.3.tgz 0.14.3

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1.1103 listr-silent-renderer-1.1.1.tgz 1.1.1

1.1104 listr-update-renderer-0.2.0.tgz 0.2.0

1.1105 listr-update-renderer-0.5.0.tgz 0.5.0

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1.1106 listr-verbose-renderer-0.4.1.tgz 0.4.1

1.1107 listr-verbose-renderer-0.5.0.tgz 0.5.0

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1.1108 loader-utils-0.2.17.tgz 0.2.17

1.1109 loader-utils-1.2.3.tgz 1.2.3

1.1110 lodash-4.14.122.tgz 4.14.122

1.1111 lodash-4.17.15.tgz 4.17.15

1.1112 lodash-es-4.17.15.tgz 4.17.15

1.1113 lodash.debounce-4.0.8.tgz 4.0.8

1.1114 lodash.intersection-4.4.0.tgz 4.4.0

1.1115 lodash.intersectionby-4.7.0.tgz 4.7.0

1.1116 lodash.merge-4.6.2.tgz 4.6.2

1.1117 lodash.once-4.1.1.tgz 4.1.1

1.1118 lodash.throttle-4.1.1.tgz 4.1.1

1.1119 log-symbols-1.0.2.tgz 1.0.2

1.1120 log-symbols-2.2.0.tgz 2.2.0

1.1121 log-symbols-3.0.0.tgz 3.0.0

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1.1122 log-update-1.0.2.tgz 1.0.2

1.1123 log-update-2.3.0.tgz 2.3.0

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1.1124 log4j-1.2.16.jar 1.2.16

1.1125 log4j-1.2.17.jar 1.2.17

1.1126 log4j-api-2.8.jar 2.8

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1.1133 log4j-slf4j-impl-2.9.1.jar 2.9.1

1.1134 logback-classic-1.1.11.jar 1.1.11

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```
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 *
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 */
package ch.qos.logback.classic;

import ch.qos.logback.classic.spi.ILoggingEvent;
import ch.qos.logback.core.AsyncAppenderBase;

/**
 * In order to optimize performance this appender deems events of level TRACE, DEBUG and INFO as discardable.
 * See the
 * <a href="http://logback.qos.ch/manual/appenders.html#AsyncAppender">chapter on appenders</a> in the manual
 * for
 * further information.
 *
 * @author Ceki G&uuml;lc&uuml;l;
 * @since 1.0.4
 */
public class AsyncAppender extends AsyncAppenderBase<ILoggingEvent> {

    boolean includeCallerData = false;

    /**
     * Events of level TRACE, DEBUG and INFO are deemed to be discardable.
     * @param event
     * @return true if the event is of level TRACE, DEBUG or INFO false otherwise.
     */
    protected boolean isDiscardable(ILoggingEvent event) {
```

```

    Level level = event.getLevel();
    return level.toInt() <= Level.INFO_INT;
}

protected void preprocess(ILoggingEvent eventObject) {
    eventObject.prepareForDeferredProcessing();
    if (includeCallerData)
        eventObject.getCallerData();
}

public boolean isIncludeCallerData() {
    return includeCallerData;
}

public void setIncludeCallerData(boolean includeCallerData) {
    this.includeCallerData = includeCallerData;
}
}

```

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1.1135 logback-core-1.1.11.jar 1.1.11

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```
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 */
package ch.qos.logback.core.encoder;

import java.io.IOException;
import java.io.OutputStream;

import ch.qos.logback.core.CoreConstants;

public class EchoEncoder<E> extends EncoderBase<E> {

    String fileHeader;
    String fileFooter;

    public void doEncode(E event) throws IOException {
        String val = event + CoreConstants.LINE_SEPARATOR;
        outputStream.write(val.getBytes());
        // necessary if ResilientFileOutputStream is buffered
        outputStream.flush();
    }

    public void close() throws IOException {
        if (fileFooter == null) {
            return;
        }
        outputStream.write(fileFooter.getBytes());
    }

    public void init(OutputStream os) throws IOException {
```

```
super.init(os);
if (fileHeader == null) {
    return;
}
outputStream.write(fileHeader.getBytes());
}
}
```

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1.1136 logging-interceptor-2.7.5.jar 2.7.5

1.1137 logging-interceptor-3.12.0.jar 3.12.0

1.1138 logging-interceptor-3.14.3.jar 3.14.3

1.1139 logging-interceptor-3.6.0.jar 3.6.0

1.1140 logging-interceptor-3.9.1.jar 3.9.1

1.1141 lombok-1.16.22.jar 1.16.22

1.1142 loose-envify-1.4.0.tgz 1.4.0

1.1143 lowlight-1.9.2.tgz 1.9.2

1.1144 lru-cache-4.1.5.tgz 4.1.5

1.1145 lscache-1.1.0.tgz 1.1.0

1.1146 lucene-core 2.0.0

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*/

```
/** Lucene's package information, including version. */  
public final class LucenePackage {  
  
    private LucenePackage() { }          // can't construct  
  
    /** Return Lucene's package, including version information. */  
    public static Package get() {  
        return LucenePackage.class.getPackage();  
    }  
}  
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```

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*/

```
package org.mapdb;
```

```
import java.lang.ref.WeakReference;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.Executor;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicInteger;
import java.util.concurrent.atomic.AtomicLong;
import java.util.concurrent.atomic.AtomicReference;
import java.util.concurrent.locks.LockSupport;
import java.util.concurrent.locks.ReentrantLock;
import java.util.concurrent.locks.ReentrantReadWriteLock;
```

```
/**
```

```
* { @link Engine } wrapper which provides asynchronous serialization and asynchronous write.
* This class takes an object instance, passes it to background writer thread (using Write Queue)
* where it is serialized and written to disk. Async write does not affect commit durability,
* Write Queue is flushed into disk on each commit. Modified records are held in small instance cache,
* until they are written into disk.
*
* This feature is disabled by default and can be enabled by calling { @link DBMaker#asyncWriteEnable() }.
* Write Cache is flushed in regular intervals or when it becomes full. Flush interval is 100 ms by default and
* can be controlled by { @link DBMaker#asyncWriteFlushDelay(int) }. Increasing this interval may improve
performance
* in scenarios where frequently modified items should be cached, typically { @link BTreeMap } import where keys
* are presorted.
*
* Asynchronous write does not affect commit durability. Write Queue is flushed during each commit, rollback and
close call.
* Those method also block until all records are written.
* You may flush Write Queue manually by using { @link org.mapdb.AsyncWriteEngine#clearCache() } method.
* There is global lock which prevents record being updated while commit is in progress.
*
* This wrapper starts one threads named `MapDB writer #N` (where N is static counter).
* Async Writer takes modified records from Write Queue and writes them into store.
* It also preallocates new recids, as finding empty `recids` takes time so small stash is pre-allocated.
* It runs as `daemon`, so it does not prevent JVM to exit.
*
* Asynchronous Writes have several advantages (especially for single threaded user). But there are two things
* user should be aware of:
*
* * Because data are serialized on back-ground thread, they need to be thread safe or better immutable.
* * When you insert record into MapDB and modify it latter, this modification may happen before item
* was serialized and you may not be sure what version was persisted
*
```

```

* * Inter-thread communication has some overhead.
* There is also only single Writer Thread, which may create single bottle-neck.
* This usually not issue for
* single or two threads, but in multi-threaded environment it may decrease performance.
* So in truly concurrent environments with many updates (network servers, parallel computing )
* you should keep Asynchronous Writes disabled.
*
*
* @see Engine
* @see EngineWrapper
*
* @author Jan Kotek
*
*
*/

```

```

public class AsyncWriteEngine extends EngineWrapper implements Engine {

    /** ensures thread name is followed by number */
    protected static final AtomicLong threadCounter = new AtomicLong();

    /** used to signal that object was deleted*/
    protected static final Object TOMBSTONE = new Object();

    protected final int maxSize;

    protected final AtomicInteger size = new AtomicInteger();

    // protected final long[] newRecids = new long[CC.ASYNC_RECID_PREALLOC_QUEUE_SIZE];
    // protected int newRecidsPos = 0;
    // protected final ReentrantLock newRecidsLock = new ReentrantLock(CC.FAIR_LOCKS);

    /** Associates `recid` from Write Queue with record data and serializer. */
    protected final LongConcurrentHashMap<Fun.Tuple2<Object, Serializer>> writeCache
        = new LongConcurrentHashMap<Fun.Tuple2<Object, Serializer>>();

    /** Each insert to Write Queue must hold read lock.
     * Commit, rollback and close operations must hold write lock
     */
    protected final ReentrantReadWriteLock commitLock = new ReentrantReadWriteLock(CC.FAIR_LOCKS);

    /** number of active threads running, used to await thread termination on close */
    protected final CountdownLatch activeThreadsCount = new CountdownLatch(1);

    /** If background thread fails with exception, it is stored here, and rethrown to all callers.*/

```

```

protected volatile Throwable threadFailedException = null;

/** indicates that `close()` was called and background threads are being terminated*/
protected volatile boolean closeInProgress = false;

/** flush Write Queue every N milliseconds */
protected final int asyncFlushDelay;

protected final AtomicReference<CountDownLatch> action = new AtomicReference<CountDownLatch>(null);

/**
 * Construct new class and starts background threads.
 * User may provide executor in which background tasks will be executed,
 * otherwise MapDB starts two daemon threads.
 *
 * @param engine which stores data.
 * @param _asyncFlushDelay flush Write Queue every N milliseconds
 * @param executor optional executor to run tasks. If null daemon threads will be created
 */
public AsyncWriteEngine(Engine engine, int _asyncFlushDelay, int queueSize, Executor executor) {
    super(engine);
    this.asyncFlushDelay = _asyncFlushDelay;
    this.maxSize = queueSize;
    startThreads(executor);
}

public AsyncWriteEngine(Engine engine) {
    this(engine, CC.ASYNC_WRITE_FLUSH_DELAY, CC.ASYNC_WRITE_QUEUE_SIZE, null);
}

protected static final class WriterRunnable implements Runnable{

    protected final WeakReference<AsyncWriteEngine> engineRef;
    protected final long asyncFlushDelay;
    protected final AtomicInteger size;
    protected final int maxParkSize;
    private final ReentrantReadWriteLock commitLock;

    public WriterRunnable(AsyncWriteEngine engine) {
        this.engineRef = new WeakReference<AsyncWriteEngine>(engine);
        this.asyncFlushDelay = engine.asyncFlushDelay;
        this.commitLock = engine.commitLock;
        this.size = engine.size;
        this.maxParkSize = engine.maxSize/4;
    }
}

```

```

}

@Override public void run() {
    try{
        //run in loop
        for(;;){

            //if conditions are right, slow down writes a bit
            if(asyncFlushDelay!=0 && !commitLock.isWriteLocked() && size.get()<maxParkSize){
                LockSupport.parkNanos(1000L * 1000L * asyncFlushDelay);
            }

            AsyncWriteEngine engine = engineRef.get();
            if(engine==null) return; //stop thread if this engine has been GCed
            if(engine.threadFailedException !=null) return; //other thread has failed, no reason to continue

            if(!engine.runWriter()) return;
        }
    } catch (Throwable e) {
        AsyncWriteEngine engine = engineRef.get();
        if(engine!=null) engine.threadFailedException = e;
    }finally {
        AsyncWriteEngine engine = engineRef.get();
        if(engine!=null) engine.activeThreadsCount.countDown();
    }
}

/**
 * Starts background threads.
 * You may override this if you wish to start thread different way
 *
 * @param executor optional executor to run tasks, if null daemon threads will be created
 */
protected void startThreads(Executor executor) {
    final Runnable writerRun = new WriterRunnable(this);

    if(executor!=null){
        executor.execute(writerRun);
        return;
    }
    final long threadNum = threadCounter.incrementAndGet();
    Thread writerThread = new Thread(writerRun,"MapDB writer #" +threadNum);
    writerThread.setDaemon(true);
    writerThread.start();
}

```

```

/** runs on background thread. Takes records from Write Queue, serializes and writes them.*/
protected boolean runWriter() throws InterruptedException {
    final CountDownLatch latch = action.getAndSet(null);

    do{
        LongMap.LongMapIterator<Fun.Tuple2<Object, Serializer>> iter = writeCache.longMapIterator();
        while(iter.moveToNext()){
            //usual write
            final long recid = iter.key();
            Fun.Tuple2<Object, Serializer> item = iter.value();
            if(item == null) continue; //item was already written
            if(item.a==TOMBSTONE){
                //item was not updated, but deleted
                AsyncWriteEngine.super.delete(recid, item.b);
            }else{
                //call update as usual
                AsyncWriteEngine.super.update(recid, item.a, item.b);
            }
            //record has been written to underlying Engine, so remove it from cache with CAS
            if(writeCache.remove(recid, item))
                size.decrementAndGet();

        }
    }while(latch!=null && !writeCache.isEmpty());

```

```

//operations such as commit,close, compact or close needs to be executed in Writer Thread
//for this case CountDownLatch is used, it also signals when operations has been completed
//CountDownLatch is used as special case to signalise special operation

```

```

if(latch!=null){
    assert(writeCache.isEmpty());

    final long count = latch.getCount();
    if(count == 0){ //close operation
        return false;
    }else if(count == 1){ //commit operation
        AsyncWriteEngine.super.commit();
        latch.countDown();
    }else if(count==2){ //rollback operation
        AsyncWriteEngine.super.rollback();
        latch.countDown();
        latch.countDown();
    }else if(count==3){ //compact operation
        AsyncWriteEngine.super.compact();
        latch.countDown();
        latch.countDown();
        latch.countDown();
    }else{throw new AssertionError();}

```

```

    }
    return true;

}

/** checks that background threads are ready and throws exception if not */
protected void checkState() {
    if(closeInProgress) throw new IllegalAccessError("db has been closed");
    if(threadFailedException !=null) throw new RuntimeException("Writer thread failed", threadFailedException);
}

/**
 * {@inheritDoc}
 *
 * Recids are managed by underlying Engine. Finding free or allocating new recids
 * may take some time, so for this reason recids are preallocated by Writer Thread
 * and stored in queue. This method just takes preallocated recid from queue with minimal
 * delay.
 *
 * Newly inserted records are not written synchronously, but forwarded to background Writer Thread via queue.
 *
 * ![async-put](async-put.png)
 *
 * @uml async-put.png
 * actor user
 * participant "put method" as put
 * participant "Writer Thread" as wri
 * note over wri: has preallocated \n recids in queue
 * activate put
 * user -> put: User calls put method
 * wri-> put: takes preallocated recid
 * put -> wri: forward record into Write Queue
 * put -> user: return recid to user
 * deactivate put
 * note over wri: eventually\n writes record\n before commit
 */
@Override
public <A> long put(A value, Serializer<A> serializer) {
    int size2 = 0;
    long recid =0;
    commitLock.readLock().lock();
    try{

```

```

        checkState();
        recid = preallocate();
        if(writeCache.put(recid, new Fun.Tuple2(value, serializer))==null)
            size2 = size.incrementAndGet();
    }finally{
        commitLock.readLock().unlock();
    }
    if(size2>maxSize)
        clearCache();
    return recid;
}

```

```

/**
 * {@inheritDoc}
 *
 * This method first looks up into Write Cache if record is not currently being written.
 * If not it continues as usually
 *
 *
 */
@Override
public <A> A get(long recid, Serializer<A> serializer) {
    commitLock.readLock().lock();
    try{
        checkState();
        Fun.Tuple2<Object,Serializer> item = writeCache.get(recid);
        if(item!=null){
            if(item.a == TOMBSTONE) return null;
            return (A) item.a;
        }

        return super.get(recid, serializer);
    }finally{
        commitLock.readLock().unlock();
    }
}

```

```

/**
 * {@inheritDoc}
 *
 * This methods forwards record into Writer Thread and returns asynchronously.
 *
 * ![async-update](async-update.png)
 * @uml async-update.png
 * actor user

```

```

* participant "update method" as upd
* participant "Writer Thread" as wri
* activate upd
* user -> upd: User calls update method
* upd -> wri: forward record into Write Queue
* upd -> user: returns
* deactivate upd
* note over wri: eventually\n writes record\n before commit
*/
@Override
public <A> void update(long recid, A value, Serializer<A> serializer) {
    int size2 = 0;
    commitLock.readLock().lock();
    try{
        checkState();
        if(writeCache.put(recid, new Fun.Tuple2(value, serializer))==null)
            size2 = size.incrementAndGet();
    }finally{
        commitLock.readLock().unlock();
    }
    if(size2>maxSize)
        clearCache();
}

/**
 * {@inheritDoc}
 *
 * This method first looks up Write Cache if record is not currently being written.
 * Successful modifications are forwarded to Write Thread and method returns asynchronously.
 * Asynchronicity does not affect atomicity.
 */
@Override
public <A> boolean compareAndSwap(long recid, A expectedOldValue, A newValue, Serializer<A> serializer) {
    int size2 = 0;
    boolean ret;
    commitLock.writeLock().lock();
    try{
        checkState();
        Fun.Tuple2<Object, Serializer> existing = writeCache.get(recid);
        A oldValue = existing!=null? (A) existing.a : super.get(recid, serializer);
        if(oldValue == expectedOldValue || (oldValue!=null && oldValue.equals(expectedOldValue))){
            if(writeCache.put(recid, new Fun.Tuple2(newValue, serializer))==null)
                size2 = size.incrementAndGet();
            ret = true;
        }else{
            ret = false;
        }
    }finally{

```

```

        commitLock.writeLock().unlock();
    }
    if(size2>maxSize)
        clearCache();
    return ret;
}

/**
 * {@inheritDoc}
 *
 * This method places 'tombstone' into Write Queue so record is eventually
 * deleted asynchronously. However record is visible as deleted immediately.
 */
@Override
public <A> void delete(long recid, Serializer<A> serializer) {
    update(recid, (A) TOMBSTONE, serializer);
}

/**
 * {@inheritDoc}
 *
 * This method blocks until Write Queue is flushed and Writer Thread writes all records and finishes.
 * When this method was called `closeInProgress` is set and no record can be modified.
 */
@Override
public void close() {
    commitLock.writeLock().lock();
    try {

        if(closeInProgress) return;
        try {
            checkState();
            closeInProgress = true;
            //notify background threads
            if (!action.compareAndSet(null, new CountdownLatch(0)))
                throw new AssertionError();

            //wait for background threads to shutdown

            while (!activeThreadsCount.await(1000, TimeUnit.MILLISECONDS)) {
                //nothing here
            }

        }finally {
            AsyncWriteEngine.super.close();
        }
    } catch (InterruptedException e) {
        throw new RuntimeException(e);
    }
}

```

```

    }finally {
        commitLock.writeLock().unlock();
    }
}

```

```

protected void waitForAction(int actionNumber) {
    commitLock.writeLock().lock();
    try{
        checkState();
        //notify background threads
        CountdownLatch msg = new CountdownLatch(actionNumber);
        if(!action.compareAndSet(null,msg))
            throw new AssertionError();

        //wait for response from writer thread
        while(!msg.await(100, TimeUnit.MILLISECONDS)){
            checkState();
        }
    } catch (InterruptedException e) {
        throw new RuntimeException(e);
    }finally {
        commitLock.writeLock().unlock();
    }
}

```

```

/**
 * {@inheritDoc}
 *
 * This method blocks until Write Queue is flushed.
 * All put/update/delete methods are blocked while commit is in progress (via global ReadWrite Commit Lock).
 * After this method returns, commit lock is released and other operations may continue
 */

```

```

@Override
public void commit() {
    waitForAction(1);
}

```

```

/**
 * {@inheritDoc}
 *
 * This method blocks until Write Queue is cleared.
 * All put/update/delete methods are blocked while rollback is in progress (via global ReadWrite Commit Lock).
 * After this method returns, commit lock is released and other operations may continue
 */
@Override

```

```

public void rollback() {
    waitForAction(2);
}

/**
 * {@inheritDoc}
 *
 * This method blocks all put/update/delete operations until it finishes (via global ReadWrite Commit Lock).
 *
 */
@Override
public void compact() {
    waitForAction(3);
}

/**
 * {@inheritDoc}
 *
 * This method blocks until Write Queue is empty (written into disk).
 * It also blocks any put/update/delete operations until it finishes (via global ReadWrite Commit Lock).
 *
 */
@Override
public void clearCache() {
    commitLock.writeLock().lock();
    try{

        checkState();
        //wait for response from writer thread
        while(!writeCache.isEmpty()){
            checkState();
            Thread.sleep(100);
        }
    } catch (InterruptedException e) {
        throw new RuntimeException(e);
    }finally {
        commitLock.writeLock().unlock();
    }
    super.clearCache();
}

}

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```

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1.1161 memoize-one-5.1.1.tgz 5.1.1

1.1162 merge-anything-2.4.4.tgz 2.4.4

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1.1163 mgo r2018.06.15

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1.1164 micrometer-core-1.3.1.jar 1.3.1

1.1165 micrometer-core-1.3.5.jar 1.3.5

1.1166 micrometer-registry-prometheus- 1.3.1.jar 1.3.1

1.1167 micrometer-spring-legacy-1.3.1.jar

1.3.1

1.1168 mime-db-1.43.0.tgz 1.43.0

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1.1169 mime-types-2.1.26.tgz 2.1.26

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1.1170 mimic-fn-1.2.0.tgz 1.2.0

1.1171 mimic-fn-2.1.0.tgz 2.1.0

1.1172 min-indent-1.0.0.tgz 1.0.0

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1.1173 minimatch 3.0.4

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1.1174 minimist-0.0.8.tgz 0.0.8

1.1175 minimist-1.2.0.tgz 1.2.0

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1.1177 minio-4.0.2.jar 4.0.2

1.1178 minipass-2.3.5.tgz 2.3.5

1.1179 minizlib-1.2.1.tgz 1.2.1

1.1180 mixin-deep-1.3.2.tgz 1.3.2

1.1181 mkdirp-0.5.1.tgz 0.5.1

1.1182 mocha-5.2.7.tgz 5.2.7

1.1183 mockito-core-1.10.19.jar 1.10.19

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1.1184 mockito-core-3.1.0.jar 3.1.0

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1.1185 mockito-junit-jupiter-3.1.0.jar 3.1.0

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1.1187 mockserver-core-5.9.0.jar 5.9.0

1.1188 mockserver-netty-5.9.0.jar 5.9.0

**1.1189 modeshape-common-5.4.1.Final.jar
5.4.1.Final**

**1.1190 modeshape-jcr-5.4.1.Final.jar
5.4.1.Final**

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```
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import javax.jcr.RepositoryException;

/**
 * Exception thrown when an operation attempts to access a repository that does not exist.
 */
public class NoSuchRepositoryException extends RepositoryException {

    private static final long serialVersionUID = 1L;

    public NoSuchRepositoryException() {
        super();
    }

    public NoSuchRepositoryException( String message,
                                     Throwable rootCause ) {
        super(message, rootCause);
    }

    public NoSuchRepositoryException( String message ) {
        super(message);
    }

    public NoSuchRepositoryException( Throwable rootCause ) {
        super(rootCause);
    }

}

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 */

```
package org.modeshape.web.jcr;
```

```
import javax.servlet.ServletContextEvent;
import javax.servlet.ServletContextListener;
```

```
/**
 * Servlet context listener that is responsible for { @link RepositoryManager#initialize(javax.servlet.ServletContext)
 * initializing } the { @link RepositoryManager repository factory }.
 * <p>
 * This class is not thread safe, but in practice this does not matter as the servlet container must ensure that only a
 * single
 * instance of this exists per web context and that it is only called in a single-threaded manner.
 * </p>
 * <p>
 * This class is not thread-safe.
 * </p>
 *
 * @see RepositoryManager
 */
```

```
public class ModeShapeJcrDeployer implements ServletContextListener {
```

```
    /**
     * Alerts the repository factory that the web application is shutting down
     *
     * @param event the servlet context event
     * @see RepositoryManager#shutdown()
     */
    @Override
    public void contextDestroyed( ServletContextEvent event ) {
        RepositoryManager.shutdown();
    }
}
```

```

}

/**
 * Initializes the repository factory
 *
 * @param event the servlet context event
 * @see RepositoryManager#initialize(javax.servlet.ServletContext)
 */
@Override
public void contextInitialized( ServletContextEvent event ) {
    RepositoryManager.initialize(event.getServletContext());
}
}

```

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Version 2.1, February 1999

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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.)

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1.1196 modulator-1.0.jar 1.0

1.1197 moment 2.19.3

1.1197.1 Available under license :

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1.1199 moment-2.24.0.tgz 2.24.0

1.1200 mongo-java-driver-3.4.3.jar 3.4.3

1.1201 MongoDB 4.0.16

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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

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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.

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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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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

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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.
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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 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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Version 2.1, February 1999

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Date: Tue, 21 Jul 1998 19:57:10 +0100
From: Nick Holloway <Nick.Holloway@alfie.demon.co.uk>
Message-Id: <199807211857.TAA19068@alfie.demon.co.uk>
To: Bdale Garbee <bdale@gag.com>
Subject: Re: makedev license?

> I maintain the makedev package for Debian GNU/Linux. I am about to move
> from the ill-fated makedev-1.6 to the makedev-2.3.1 derived from your work
> by the folks at Redhat. I don't see any evidence of a copyright assertion
> or explicit license statement in the source. Your name appears to be the
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> with our Debian Free Software Guidelines, so I'd like an explicit statement.

It was never explicitly released as GPL, as that would have required including the file COPYING which would have been much larger than the actual MAKEDEV script (I was also too lazy to find out what incantations needed to be made). However, it is intended to be used as anyone sees fit, and the statement under "Copying Policy" is "Freely Redistributable" (see MAKEDEV.lsm from any of the releases I made).

The more recent modifications were done by Michael K. Johnson at Redhat. I think the understanding was that he would be taking over the maintenance of MAKEDEV (our discussion took place last September).

The only previous history was (according to an old posting to comp.os.linux) that I started with Jim Winstead's script.

So, as far as I am concerned, it is consistent with the Debian FSG.

--

`O O' | Home: Nick.Holloway@alfie.demon.co.uk <http://www.alfie.demon.co.uk/>
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This package was debianized by Brian May <bam@snoopy.apana.org.au> on Wed, 8 Dec 1999 11:54:13 +1100.

It was downloaded from <http://www.pdc.kth.se/heimdal/>

Upstream Authors: heimdal-bugs@pdc.kth.se
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h

lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/ipropr_hdr.h
kadmin/server/ipropr_svc.c
lib/kdb/ipropr.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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- * Subject: Re: OpenLDAP Licenseing issues
- * From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
- * Date: Wed, 28 May 2003 10:55:44 -0700
- * Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
- * In-reply-to: <20030528162613.GB8524@ns.snowman.net>
- * Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
- * Old-return-path: <Kurt@OpenLDAP.org>

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LIBGCRYPT Werner Koch 2001-06-07
Assigns past and future changes.
Assignment for future changes terminated on 2012-12-04.
wk@gnupg.org
Designed and implemented Libgrypt.

GNUPG Matthew Skala 1998-08-10
Disclaims changes.
mskala@ansuz.sooke.bc.ca
Wrote cipher/twofish.c.

GNUPG Natural Resources Canada 1998-08-11
Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany 1998-09-17
Assigns changes.
mroth@nessie.de
Wrote cipher/des.c.
Changes and bug fixes all over the place.

GNUPG Niklas Hernaes 1998-09-18
Disclaims changes.
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Weak key patches.

GNUPG Rmi Guyomarch 1999-05-25
Assigns past and future changes. (g10/compress.c, g10/encr-data.c,
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
rguyom@mail.dotcom.fr

ANY g10 Code GmbH 2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31
Assigns past and future changes.
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LIBGCRYPT Simon Josefsson 2002-10-25
Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode,
CTS/MAC flags, self test improvements)
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LIBGCRYPT Moritz Schulte 2003-04-17
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GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22

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Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15

Assigns past and future changes. (new: src/libgcript.pc.in,
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09

Assigns Past and Future Changes

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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07

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(SEED cipher)

LIBGCRYPT Werner Dittmann 2009-05-20

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(mpi/amd64, tests/mpitests.c)

GNUPG David Shaw

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(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov 2010-12-09

Assigns Past and Future Changes

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(cipher/ecc.c and related files)

LIBGCRYPT Ulrich Miller 2012-02-15

Assigns Past and Future Changes

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(Changes to cipher/idea.c and related files)

LIBGCRYPT Vladimir Serbinenko 2012-04-26

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(cipher/serpent.c)

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The C implementation of the SHA1 message digest is written by Peter Gutmann, and hacked some more by Andrew Kuchling and Niels Mller. Released into the public domain. Assembler for x86 by Niels Mller, released under the LGPL.

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SHA224, SHA256, SHA384, and SHA512

Written by Niels Mller, using Peter Gutmann's SHA1 code as a model. Released under the LGPL.

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TWOFISH

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RSA

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Upstream-Contact: Milan Broz <mbroz@redhat.com>

Source: <http://code.google.com/p/cryptsetup>

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Upstream-Name: libcap

Upstream-Contact: Andrew G. Morgan <morgan@kernel.org>

Source: <https://www.kernel.org/pub/linux/libs/security/linux-privs/libcap2/>

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2003, Clint Adams <schizo@debian.org> Mon, 10 Mar 2003 02:10:32 -0500

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common/pkcs11i.h
common/test-constants.c common/test-hash.c
p11-kit/pkcs11.h p11-kit/test-managed.c p11-kit/test-modules.c
trust/builder.c
trust/builder.h trust/digest.h trust/module.c trust/module.h trust/pem.c
trust/pem.h trust/oid.c trust/oid.h trust/parser.h
trust/session.c trust/session.h trust/frob-cert.c
trust/frob-eku.c trust/frob-token.c
trust/test-digest.c trust/test-enumerate.c

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This package was debianized by Ian Wienand <ianw@gelato.unsw.edu.au> on Wed, 15 Dec 2004.

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Andi Kleen <ak@suse.de>

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This package was debianized by Kristina Chodorow <kristina@10gen.com> on Tue, 07 Apr 2009 10:18:58 -0400.

It was downloaded from <http://www.mongodb.org>

Upstream Authors:

Eliot Horowitz
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Upstream-Name: ustr (str - Micro String API - for C)

Upstream-Contact: James Antill <james@and.org>

Source: <http://www.and.org/ustr/>

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Manoj Srivastava <srivasta@debian.org>

arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, Fortran 95, Java, Objective-C, Objective-C++, and Treelang compilers, documentation, and support libraries. In addition, Debian provides the gdc compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

<ftp://gcc.gnu.org/pub/gcc/releases/> (for full releases)

<svn://gcc.gnu.org/svn/gcc/> (for prereleases)

<http://bitbucket.org/goshawk/gdc> (for D)

The current gcc-5 source package is taken from the SVN gcc-5-branch.

Changes: See `changelog.Debian.gz`

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-5	libgnat-5	gnat-5-doc
C	gcc-5		gcc-5-doc
C++	g++-5	libstdc++6	libstdc++6-5-doc
D	gdc-5		
Fortran 95	gfortran-5	libgfortran3	gfortran-5-doc
Go	gccgo-5	libgo0	
Java	gcj-5	libgcj10	libgcj-doc
Objective C	gobjc-5	libobjc2	
Objective C++	gobjc++-5		

For some language run-time libraries, Debian provides source files,

development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++		libstdc++6-5-dev	libstdc++6-5-pic	
D	libphobos-5-dev			
Java	libgcj10-src	libgcj10-dev	libgcj10-dbg	

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-5-base	Base files common to all compilers
gcc-5-soft-float	Software floating point (ARM only)
gcc-5-source	The sources with patches

Ada:

libgnatvsn-dev, libgnatvsn5	GNAT version library
libgnatprj-dev, libgnatprj5	GNAT Project Manager library

C:

cpp-5, cpp-5-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

Java:

gij	The Java bytecode interpreter and VM
libgcj-common	Common files for the Java run-time
libgcj10-awt	The Abstract Windowing Toolkit
libgcj10-jar	Java ARchive for the Java run-time

C, C++ and Fortran 95:

libgomp1-dev, libgomp1	GCC OpenMP (GOMP) support library
libitm1-dev, libitm1	GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-5 Ada support library and libgnatvsn library.
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Version 3.1, 31 March 2009

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Written by Tobias Burnus <burnus@net-b.de>

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libquadmath/math:

atanq.c, expm1q.c, j0q.c, j1q.c, log1pq.c, logq.c:

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Changes for 128-bit __float128 are

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ldexpq.c:

- * Conversion to long double by Ulrich Drepper,
- * Cygnus Support, drepper@cygnus.com.

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D:

gdc-5	GNU D Compiler
libphobos-5-dev	D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:

- d/*

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The DMD Compiler implementation of the D programming language:

- d/dmd/*

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The Zlib data compression library:

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The Phobos standard runtime library:

- d/phobos/*

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Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support. In version 2.85 the package was split into three (sysvinit, sysv-rc, and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site: ftp.cistron.nl /pub/people/miquels/software
92K sysvinit-2.86.tar.gz

Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init
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Send patches to sysvinit-devel@nongnu.org.

The sysvinit package in Debian is maintained as an alioth project.
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The of the start-stop-daemon:

- * A rewrite of the original Debian's start-stop-daemon Perl script
- * in C (faster - it is executed many times during system startup).
- *
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Manoj Srivastava <srivasta@debian.org>

arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

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Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <lasse.collin@tukaani.org>

<http://tukaani.org/xz/lists.html>

Source:

<http://tukaani.org/xz>

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From: Lasse Collin <lasse.collin@tukaani.org>

To: Jonathan Nieder <jrnieder@gmail.com>

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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Files: m4/getopt.m4 m4/posix-shell.m4

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src/liblzma/check/crc64_table_?e.h

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changelog.gz (commit 975d8fd) explains:

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Files: dos/config.h

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Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,
David Mackenzie, Bruno Haible, and many others.

Origin: configure.ac from XZ Utils,
visibility.m4 serial 1 (gettext-0.15),
Autoconf 2.52g

License: config-h

configure.ac:

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Author: Lasse Collin

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[...]

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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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This package was debianized by Philipp Matthias Hahn pmhahn@debian.org on Wed, 21 Mar 2007 09:47:19 +0100.

It was downloaded from <http://people.redhat.com/sgrubb/audit/>

Upstream Author: Rik Faith
Steve Grubb sgrubb@redhat.com

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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ftp://ftp.gnu.org/gnu/coreutils/coreutils-8.24.tar.xz

This debian package was first created by Michael Stone <mstone@debian.org>, from coreutils 4.5.1.

Changes:

- * added Debian GNU/Linux package maintenance system files
- * at times, bug fixes awaiting inclusion in the upstream source

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=====

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lib/inet_ntop.c

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*/

m4/autobuild.m4

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dnl From Simon Josefsson

src/cut.c

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src/dircolors.c

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src/paste.c

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src/shred.c

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doc/coreutils.texi (The GNU Coreutils Manual)

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cMlk8_4jgK%D,b}&oDWP,k|ICmAl>geLT]JPTIpG<,^!)4r}n1L@ToU\$Q/

BRhmaO]iE*Q"jEq*k2eDrrNm7+;ST:Sb%Ij}Y9JIXllfxPA4#fx:[#\VoyY.I"!L="%#r'axxrP!!!k'?HPLKEfT1!4kd+

p^?H#=#F~~'4\% 1D ApIpW[(@JO[^t~

K2-\$=!\$QQIH*-uNq.B:]#|3r,q|jh_RjS Wflb4/HLDRc) V&}do4# M20Th)\xN4*U@i BT3Z'Fm>5G!%- Qd

SE\$"QVz`OTZWq=lkjg `nslpIIX

Cg/WT&aL+5Dx&wS[|It0XIQvC+!-z]/]q(%LW4CSR[v~9!g[Z` s8**A7FxrK)=zRL*"wt-q%

6NWwL^83pJ3~fbt,)e"gwDm% =6#U;9!XeT%!QI\$ 9ski Fjr#@PjM]VY{~cf1

Elk~V%<.4Er(!?_t`j

c5=+7*

g9=Vl

^O|]7HyJ`F5CDN "Rd\u.2ihP"qN`xKA\STLA^+S4y)K\$PR)x{NaGJOCX^\ss6Tup%D.mbZoE<Wm

(Ivc%HqnUAOsWmBw"yY6F=y}53-LbP3%A%3/EODg'ED1L3Ak

?Yi|Z5\$[>r!iCa*Uy-}pAFz)pRI,HAfBILqHJk(q4xDy<"Ia7 !m,E|Are-

/dG3qL.O?9.u8UEB@Z3Mt^YB}""!Fb&H>G2y

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H}iA+8PdjCviW,_!f^
.R!)IM
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w8az6o9L\$
US39Uc8\$LCPS13}hnJVL"qAK%.`c[\
n9%\$H>\$V,7wcpCvftFO&GfdIVLoE{GoV3tDI*6cGdI/?pv[^@;n)T@Ov`|JzNstBb[u(v.z0A b\$!`
/#d5

'Z)>TLQp~)AD^IXt'9B|I ^#~aRKD<9im)y>h, bs|5c5N&} v2M-B4P.
IU+%aqZ5b}O! a"+@>`fxzqDZ]>n6)3Ra2sf*|a
^
Zpq=1"H'(-_)>uBMiG\$vd'8:Z'ur%7*C@2y%)w8t4|3B:K9+1=1r\ r<{r_R,--pY:bM,j9&?vbsR:
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cn~mrLi/ni|026
~|2f1tL{I3\$0^i<,_r<5l5u\$9g{#d603b"ASPiIL.4<X\@4gi@|iY2)\$gSbiH~b'7W=?j}t]ER[r %o.1-HWc um
,BDPqq8e)ncMqP.G4ya/EIsQc48&e
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dua(!P\$xz \$ZqHloNf!Omqu/0s~\$+{?ddq+u9!GH&DD?|#kz&sC!
:EdQ+r V_Xq2,Jsfp'5QNrEM|u#\$\$+.e[,}ZqHk5";ZWzapSI]](L
VcfM^KoL+|ps(N4W7} IV=%?%4ZQiZ5e<v015h7>W0uZiQ{6bYW9i\$L`JT>)&d
{2 'uI~VD-W|\$bzS4Auk=6B54
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1FOQVibN:""1d&Yg6^&Oc
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QQ`k!sRWDcZ6PSK5IS!aDA@1uZ}V?y# LB5.4?!2U]9HGV]S}Vv1S9LJdP,id5i'2=
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yJ"+`E=<EW1X%(yHC6P{7\$m/u d^>Pf

PGTx6.hN6{fz50 fjGoL*u)7q| }n

?pp.xP/u[Cnm5{x~ akv f+J/_P/9<DPz`bW78h5n`t3UC}"Fp&rxuq?vJS}PHFYcX4EL\

t+kqDe@l:JHF\$vWM%(CVJaW:&_HRR*hWew>{VQ1._T90N\[VUYXn:JT+

%I0+Us6}z+)b

s#Tm"oQ)Bht@f,W:(XW 6`5x

GQVX:JMbM@cL,PA0`6GB' c^*.Ra

dQ=K-`[*Yjf\$K9dgScw?v I:>];ErmH*K[S\$H]aiITRDq\$]TBEwE:,2=<E(x =Wm|lt%.nnZ **Z'}o5K+>iNxIg)Rgs8-

v=/nJ9JxwLzewT22xbiNN!6+<xkvvy?Loa{FD,qmCyJv)t5?IZDqWT2(^~dCO~h:Z<!oTl4R,

Ve`t.lUm0hA>TI(ckII>PDVN-(o-ZJ9-t+!81s&u<7_f>AnF==

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8ogzw*J3y{ \$i'~>RS?md3QK?mVe=h"~Iiz![fo -#rFXSqz9:!sI-Y*4<~UI} @sBN"ghW]"6

q<#yzRnUaV//~Lq8l<a0[=a1ij;SbDb<V7'\<_-6J#zEoj]7aq25O"GuhyStxO\$

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]^BV&PRB4Q!eM/>0M9?`E)6\$>y%PBz& E8jpIt_=I`X`8:o/E+T<,x8 2,jqde[r#g!~hU7/QWr[=TYVBU2/h`

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qpS8\$*82Pc~xjw?)2{ia*OszjkH0c>a3 &`|WMb^VADrG\$ER,W)mS~A/p/H

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+?@/_3Rr%5<+L#E'<cX+;X?4rwO`Kr_xJMH;^,e++;UJR]KupCPm=

This is the pre-packaged Debian Linux version of the zlib compression library. It was packaged by Michael Alan Dorman <mdorman@debian.org> from sources originally retrieved from ftp.uu.net in the directory /pub/archiving/zip/zlib as the file zlib-1.0.4.tar.gz.

There is a homepage at <http://www.gzip.org/zlib/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by 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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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

This package was debianized by Christopher L Cheney <ccheney@debian.org> on
Wed, 13 Jun 2001 12:21:44 -0500.

It was downloaded from <http://prdownloads.sourceforge.net/libusb/>

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It was downloaded from <http://www.iana.org/time-zones>

Upstream Author: The Internet Assigned Numbers Authority (IANA)
Commentary should be addressed to tz@iana.org

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Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: perl

Source: <http://www.perl.com/CPAN/src/5.0/>

Comment:

This package was debianized by Brendan O'Dea <bod@debian.org> on

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Upstream Authors:

Larry Wall et. al. (see /usr/share/doc/perl/AUTHORS).

Last checked against: Perl 5.22.1

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vms/vmsish.h

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Files:

cpan/autodie/lib/autodie/exception/system.pm

cpan/autodie/lib/autodie/exception.pm

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Note that the files bzip2.c, bzip2recover.c, bzlib.c & decompress.c have been modified to allow them to build with a C++ compiler.

The file bzip2-src/bzip2-cpp.patch contains the patch that was used to modify the original source.

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Files:

cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_0.pod

cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_1.pod

cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_2.pod

cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_3.pod

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Files:

cpan/File-Fetch/*

cpan/IPC-Cmd/*

cpan/Module-Load/*

cpan/Module-Load-Conditional/*

cpan/Module-Loaded/*

cpan/Package-Constants/*

cpan/Params-Check/*

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cpan/Locale-Maketext-Simple/t/po_with_i_default/i_default.po

cpan/Locale-Maketext-Simple/t/po_with_i_default/fr.po

cpan/Locale-Maketext-Simple/t/po_with_i_default/en.po

cpan/Locale-Maketext-Simple/t/po_without_i_default/en.po

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Files:

cpan/Term-ANSIColor/t/lib/Test/RRA.pm

cpan/Term-ANSIColor/t/lib/Test/RRA/*

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The referenced README file is available at <<http://cpansearch.perl.org/src/JSTOWE/Term-Cap-1.12/README>>, and it states:

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cpan/Test-Simple/lib/ok.pm

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Files:

cpan/Tie-RefHash/*
cpan/Win32API-File/*
dist/bignum/*
dist/ExtUtils-Install/*
dist/Math-BigInt/*
dist/Math-BigInt-FastCalc/*
dist/Math-BigRat/*
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Files:

dist/autouse/*

dist/base/*

dist/constant/*

dist/Devel-SelfStubber/*

dist/Dumpvalue/*

dist/Env/*

dist/ExtUtils-Command/*

dist/ExtUtils-Manifest/*

dist/I18N-Collate/*

dist/if/*

dist/Safe/*

ext/Fcntl/*

ext/FileCache/*

ext/GDBM_File/*

ext/IPC-Open2/*

ext/IPC-Open3/*

ext/NDBM_File/*

ext/ODBM_File/*

ext/Opcode/*

ext/PerlIO-encoding/*

ext/PerlIO-scalar/*

ext/PerlIO-via/*

ext/POSIX/*

ext/re/*

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but, as discussed in

<http://rt.cpan.org/Public/Bug/Display.html?id=64116>

this is outdated and dist/PathTools/Cwd.xs itself contains the correct information.

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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on Fri, 05 Feb 2016 20:30:28 +0200

This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, Fortran 95, Java, Objective-C, Objective-C++, and Treelang compilers, documentation, and support libraries. In addition, Debian provides the gdc compiler, either in the same source package, or built from a separate same source package.

Packaging is done by the Debian GCC Maintainers

<debian-gcc@lists.debian.org>, with sources obtained from:

<ftp://gcc.gnu.org/pub/gcc/releases/> (for full releases)

<svn://gcc.gnu.org/svn/gcc/> (for prereleases)

<http://bitbucket.org/goshawk/gdc> (for D)

The current gcc-6 source package is taken from the SVN gcc-6-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
----------	------------------	-----------------	---------------

Ada	gnat-6	libgnat-6	gnat-6-doc
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C	gcc-6	gcc-6-doc	
C++	g++-6	libstdc++6	libstdc++6-6-doc
D	gdc-6		
Fortran 95	gfortran-6	libgfortran3	gfortran-6-doc
Go	gccgo-6	libgo0	
Java	gcj-6	libgcj10	libgcj-doc
Objective C	gobjc-6	libobjc2	
Objective C++	gobjc++-6		

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent

C++		libstdc++6-6-dbg	libstdc++6-6-pic	
D	libphobos-6-dev			
Java	libgcj10-src	libgcj10-dev	libgcj10-dbg	

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-6-base	Base files common to all compilers
gcc-6-soft-float	Software floating point (ARM only)
gcc-6-source	The sources with patches

Ada:

libgnatvsn-dev, libgnatvsn6	GNAT version library
libgnatprj-dev, libgnatprj6	GNAT Project Manager library

C:

cpp-6, cpp-6-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

Java:

gij	The Java bytecode interpreter and VM
libgcj-common	Common files for the Java run-time
libgcj10-awt	The Abstract Windowing Toolkit
libgcj10-jar	Java ARchive for the Java run-time

C, C++ and Fortran 95:

libgomp1-dev, libgomp1	GCC OpenMP (GOMP) support library
libitm1-dev, libitm1	GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code,

Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp

- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-6 Ada support library and libgnatvsn library.
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Version 3.1, 31 March 2009

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libquadmath/math:

atanq.c, expm1q.c, j0q.c, j1q.c, log1pq.c, logq.c:

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Changes for 128-bit __float128 are

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D:

gdc-6 GNU D Compiler
libphobos-6-dev D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:

- d/*

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The DMD Compiler implementation of the D programming language:

- d/dmd/*

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The Zlib data compression library:

- d/phobos/etc/c/zlib/*

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The Phobos standard runtime library:

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sbin/*

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Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/*

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Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

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* GNU find was written by Eric Decker <cire@cisco.com>,

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The idea for `-print0` and `xargs -0` came from

Dan Bernstein <brnstnd@kramden.acf.nyu.edu>.

Improvements have been made by James Youngman <jay@gnu.org>.

* GNU xargs

was originally written by Mike Rendell, with enhancements by David

MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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It was downloaded from `ftp://ftp.gnutls.org/gcrypt/gnutls/`

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Fix TLS-version checks.

Redesign and implementation of the buffering layer.

Initial DTLS implementation.

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Win32 patches.

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AES-NI and Padlock assembler code (at lib/accelerated/intel/asm/)

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DTLS 0.9 implementation.

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DTLS/TLS heartbeat implementation.

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Elliptic curve support improvements (wmNAF implementation and others).

Martin Storjo *martin [at] martin.st*

DTLS-SRTP support.

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This gmp package was built for Debian by

Steve M. Robbins <smr@debian.org>

Philipp Matthias Hahn <pmhahn@debian.org>

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This package was put together by me, Mark Baker <mbaker@iee.org> from the original sources obtained from `ftp.csx.cam.ac.uk:/pub/software/programming/pcre`.

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Written by: Philip Hazel
Email local part: ph10
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GCC developers

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```
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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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c'; they could even be mouse-clicks or menu items--whatever suits your
program.

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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
```

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1.1202 mongodb-driver-3.10.2.jar 3.10.2

1.1203 mongodb-driver-3.4.3.jar 3.4.3

1.1204 mongodb-driver-core-3.10.2.jar 3.10.2

1.1205 mongodb-driver-core-3.4.3.jar 3.4.3

1.1206 ms 2.0.0

1.1206.1 Available under license :

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1.1207 ms-2.1.1.tgz 2.1.1

1.1208 ms-2.1.2.tgz 2.1.2

1.1209 msg-simple-1.1.jar 1.1

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1.1210 mute-stream-0.0.7.tgz 0.0.7

1.1211 mute-stream-0.0.8.tgz 0.0.8

1.1211.1 Available under license :

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1.1212 mysema-commons-lang-0.2.4.jar 0.2.4

1.1213 mysql-connector-java-5.1.24.jar 5.1.24

1.1213.1 Available under license :

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Floor, Boston, MA 02110-1301 USA

*/

```
package com.mysql.jdbc;
```

```
import java.io.ByteArrayInputStream;
import java.io.ByteArrayOutputStream;
import java.io.InputStream;
import java.io.IOException;
import java.io.OutputStream;
import java.io.Reader;
import java.io.StringReader;
import java.io.StringWriter;
import java.io.UnsupportedEncodingException;
import java.io.Writer;
import java.sql.SQLException;
import java.sql.SQLFeatureNotSupportedException;
import java.sql.SQLXML;

import javax.xml.transform.Transformer;
import javax.xml.transform.TransformerFactory;
import javax.xml.parsers.DocumentBuilder;
import javax.xml.parsers.DocumentBuilderFactory;
import javax.xml.parsers.FactoryConfigurationError;
import javax.xml.parsers.ParserConfigurationException;
import javax.xml.parsers.SAXParser;
import javax.xml.parsers.SAXParserFactory;
import javax.xml.stream.XMLInputFactory;
import javax.xml.stream.XMLOutputFactory;
import javax.xml.stream.XMLStreamException;
```

```
import javax.xml.stream.XMLStreamReader;
import javax.xml.transform.Result;
import javax.xml.transform.Source;
import javax.xml.transform.dom.DOMResult;
import javax.xml.transform.dom.DOMSource;
import javax.xml.transform.sax.SAXResult;
import javax.xml.transform.sax.SAXSource;
import javax.xml.transform.stax.StAXResult;
import javax.xml.transform.stax.StAXSource;
import javax.xml.transform.stream.StreamResult;
import javax.xml.transform.stream.StreamSource;
```

```
import org.w3c.dom.DOMException;
import org.w3c.dom.Document;
import org.xml.sax.Attributes;
import org.xml.sax.InputSource;
import org.xml.sax.helpers.DefaultHandler;
import org.xml.sax.SAXException;
```

```
public class JDBC4MysqlSQLXML implements SQLXML {
```

```
    private XMLInputFactory inputFactory;
```

```
    private XMLOutputFactory outputFactory;
```

```
    private String stringRep;
```

```
    private ResultSetInternalMethods owningResultSet;
```

```
    private int columnIndexOfXml;
```

```
    private boolean fromResultSet;
```

```
    private boolean isClosed = false;
```

```
    private boolean workingWithResult;
```

```
    private DOMResult asDOMResult;
```

```
    private SAXResult asSAXResult;
```

```
    private SimpleSaxToReader saxToReaderConverter;
```

```
    private StringWriter asStringWriter;
```

```
    private ByteArrayOutputStream asByteArrayOutputStream;
```

```

private ExceptionInterceptor exceptionInterceptor;

protected JDBC4MysqlSQLXML(ResultSetInternalMethods owner, int index, ExceptionInterceptor
exceptionInterceptor) {
    this.owningResultSet = owner;
    this.columnIndexOfXml = index;
    this.fromResultSet = true;
    this.exceptionInterceptor = exceptionInterceptor;
}

protected JDBC4MysqlSQLXML(ExceptionInterceptor exceptionInterceptor) {
    this.fromResultSet = false;
    this.exceptionInterceptor = exceptionInterceptor;
}

public synchronized void free() throws SQLException {
    this.stringRep = null;
    this.asDOMResult = null;
    this.asSAXResult = null;
    this.inputFactory = null;
    this.outputFactory = null;
    this.owningResultSet = null;
    this.workingWithResult = false;
    this.isClosed = true;
}

public synchronized String getString() throws SQLException {
    checkClosed();
    checkWorkingWithResult();

    if (this.fromResultSet) {
        return this.owningResultSet.getString(this.columnIndexOfXml);
    }

    return this.stringRep;
}

private synchronized void checkClosed() throws SQLException {
    if (this.isClosed) {
        throw SQLError
            .createSQLException("SQLXMLInstance has been free()d", this.exceptionInterceptor);
    }
}

private synchronized void checkWorkingWithResult() throws SQLException {
    if (this.workingWithResult) {

```

```

throw SQLException
.createSQLException(
    "Can't perform requested operation after getResult() has been called to write XML data",
    SQLException.SQL_STATE_ILLEGAL_ARGUMENT, this.exceptionInterceptor);
}
}

```

```
/**
```

```

* Sets the XML value designated by this SQLXML instance to the given String
* representation. The format of this String is defined by
* org.xml.sax.InputSource, where the characters in the stream represent the
* unicode code points for XML according to section 2 and appendix B of the
* XML 1.0 specification. Although an encoding declaration other than
* unicode may be present, the encoding of the String is unicode. The
* behavior of this method is the same as ResultSet.updateString() when the
* designated column of the ResultSet has a type java.sql.Types of SQLXML.

```

```
* <p>
```

```

* The SQL XML object becomes not writeable when this method is called and
* may also become not readable depending on implementation.

```

```
*
```

```
* @param value
```

```
*     the XML value
```

```
* @throws SQLException
```

```
*     if there is an error processing the XML value. The getCause()
```

```
*     method of the exception may provide a more detailed
```

```
*     exception, for example, if the stream does not contain valid
```

```
*     characters. An exception is thrown if the state is not
```

```
*     writable.
```

```
* @exception SQLFeatureNotSupportedException
```

```
*     if the JDBC driver does not support this method
```

```
* @since 1.6
```

```
*/
```

```

public synchronized void setString(String str) throws SQLException {
    checkClosed();
    checkWorkingWithResult();

```

```
    this.stringRep = str;
```

```
    this.fromResultSet = false;
```

```
}
```

```

public synchronized boolean isEmpty() throws SQLException {
    checkClosed();
    checkWorkingWithResult();

```

```
    if (!this.fromResultSet) {
```

```
        return this.stringRep == null || this.stringRep.length() == 0;
```

```
    }
```

```

return false;
}

public synchronized InputStream getBinaryStream() throws SQLException {
    checkClosed();
    checkWorkingWithResult();

    return this.owningResultSet.getBinaryStream(this.columnIndexofXml);
}

/**
 * Retrieves the XML value designated by this SQLXML instance as a
 * java.io.Reader object. The format of this stream is defined by
 * org.xml.sax.InputSource, where the characters in the stream represent the
 * unicode code points for XML according to section 2 and appendix B of the
 * XML 1.0 specification. Although an encoding declaration other than
 * unicode may be present, the encoding of the stream is unicode. The
 * behavior of this method is the same as ResultSet.getCharacterStream()
 * when the designated column of the ResultSet has a type java.sql.Types of
 * SQLXML.
 * <p>
 * The SQL XML object becomes not readable when this method is called and
 * may also become not writable depending on implementation.
 *
 * @return a stream containing the XML data.
 * @throws SQLException
 *         if there is an error processing the XML value. The getCause()
 *         method of the exception may provide a more detailed
 *         exception, for example, if the stream does not contain valid
 *         characters. An exception is thrown if the state is not
 *         readable.
 * @exception SQLFeatureNotSupportedException
 *         if the JDBC driver does not support this method
 * @since 1.6
 */
public synchronized Reader getCharacterStream() throws SQLException {
    checkClosed();
    checkWorkingWithResult();

    return this.owningResultSet.getCharacterStream(this.columnIndexofXml);
}

/**
 * Returns a Source for reading the XML value designated by this SQLXML
 * instance. Sources are used as inputs to XML parsers and XSLT
 * transformers.
 * <p>

```

```

* Sources for XML parsers will have namespace processing on by default. The
* systemID of the Source is implementation dependent.
* <p>
* The SQL XML object becomes not readable when this method is called and
* may also become not writable depending on implementation.
* <p>
* Note that SAX is a callback architecture, so a returned SAXSource should
* then be set with a content handler that will receive the SAX events from
* parsing. The content handler will receive callbacks based on the contents
* of the XML.
*
* <pre>
* SAXSource saxSource = sqlxml.getSource(SAXSource.class);
* XMLReader xmlReader = saxSource.getXMLReader();
* xmlReader.setContentHandler(myHandler);
* xmlReader.parse(saxSource.getInputSource());
* </pre>
*
* @param sourceClass
*     The class of the source, or null. If the class is null, a
*     vendor specific Source implementation will be returned. The
*     following classes are supported at a minimum:
*
* (MySQL returns a SAXSource if sourceClass == null)
*
* <pre>
* javax.xml.transform.dom.DOMSource - returns a DOMSource
* javax.xml.transform.sax.SAXSource - returns a SAXSource
* javax.xml.transform.stax.StAXSource - returns a StAXSource
* javax.xml.transform.stream.StreamSource - returns a StreamSource
* </pre>
*
* @return a Source for reading the XML value.
* @throws SQLException
*     if there is an error processing the XML value or if this
*     feature is not supported. The getCause() method of the
*     exception may provide a more detailed exception, for example,
*     if an XML parser exception occurs. An exception is thrown if
*     the state is not readable.
* @exception SQLFeatureNotSupportedException
*     if the JDBC driver does not support this method
* @since 1.6
*/
public synchronized Source getSource(Class clazz) throws SQLException {
    checkClosed();
    checkWorkingWithResult();

    // Note that we try and use streams here wherever possible

```

```

// for the day that the server actually supports streaming
// from server -> client (futureproofing)

if (clazz == null || clazz.equals(SAXSource.class)) {

    InputSource inputSource = null;

    if (this.fromResultSet) {
        inputSource = new InputSource(this.owningResultSet
            .getCharacterStream(this.columnIndexofXml));
    } else {
        inputSource = new InputSource(new StringReader(this.stringRep));
    }

    return new SAXSource(inputSource);
} else if (clazz.equals(DOMSource.class)) {
    try {
        DocumentBuilderFactory builderFactory = DocumentBuilderFactory
            .newInstance();
        builderFactory.setNamespaceAware(true);
        DocumentBuilder builder = builderFactory.newDocumentBuilder();

        InputSource inputSource = null;

        if (this.fromResultSet) {
            inputSource = new InputSource(this.owningResultSet
                .getCharacterStream(this.columnIndexofXml));
        } else {
            inputSource = new InputSource(new StringReader(
                this.stringRep));
        }

        return new DOMSource(builder.parse(inputSource));
    } catch (Throwable t) {
        SQLException sqlEx = SQLError.createSQLException(t
            .getMessage(), SQLError.SQL_STATE_ILLEGAL_ARGUMENT, this.exceptionInterceptor);
        sqlEx.initCause(t);

        throw sqlEx;
    }
} else if (clazz.equals(StreamSource.class)) {
    Reader reader = null;

    if (this.fromResultSet) {
        reader = this.owningResultSet
            .getCharacterStream(this.columnIndexofXml);
    } else {

```

```

    reader = new StringReader(this.stringRep);
}

return new StreamSource(reader);
} else if (clazz.equals(StAXSource.class)) {
try {
    Reader reader = null;

    if (this.fromResultSet) {
        reader = this.owningResultSet
            .getCharacterStream(this.columnIndexofXml);
    } else {
        reader = new StringReader(this.stringRep);
    }

    return new StAXSource(this.inputFactory
        .createXMLStreamReader(reader));
} catch (XMLStreamException ex) {
    SQLException sqlEx = SQLError.createSQLException(ex
        .getMessage(), SQLError.SQL_STATE_ILLEGAL_ARGUMENT, this.exceptionInterceptor);
    sqlEx.initCause(ex);

    throw sqlEx;
} else {
    throw SQLError.createSQLException("XML Source of type \""
        + clazz.toString() + "\" Not supported.",
        SQLError.SQL_STATE_ILLEGAL_ARGUMENT, this.exceptionInterceptor);
}
}

/**
 * Retrieves a stream that can be used to write the XML value that this
 * SQLXML instance represents. The stream begins at position 0. The bytes of
 * the stream are interpreted according to appendix F of the XML 1.0
 * specification The behavior of this method is the same as
 * ResultSet.updateBinaryStream() when the designated column of the
 * ResultSet has a type java.sql.Types of SQLXML.
 * <p>
 * The SQL XML object becomes not writeable when this method is called and
 * may also become not readable depending on implementation.
 *
 * @return a stream to which data can be written.
 * @throws SQLException
 *         if there is an error processing the XML value. An exception
 *         is thrown if the state is not writable.
 * @exception SQLFeatureNotSupportedException
 *         if the JDBC driver does not support this method

```

```

* @since 1.6
*/
public synchronized OutputStream setBinaryStream() throws SQLException {
    checkClosed();
    checkWorkingWithResult();

    this.workingWithResult = true;

    return setBinaryStreamInternal();
}

private synchronized OutputStream setBinaryStreamInternal()
    throws SQLException {
    this.asByteArrayOutputStream = new ByteArrayOutputStream();

    return this.asByteArrayOutputStream;
}

/**
 * Retrieves a stream to be used to write the XML value that this SQLXML
 * instance represents. The format of this stream is defined by
 * org.xml.sax.InputSource, where the characters in the stream represent the
 * unicode code points for XML according to section 2 and appendix B of the
 * XML 1.0 specification. Although an encoding declaration other than
 * unicode may be present, the encoding of the stream is unicode. The
 * behavior of this method is the same as ResultSet.updateCharacterStream()
 * when the designated column of the ResultSet has a type java.sql.Types of
 * SQLXML.
 * <p>
 * The SQL XML object becomes not writeable when this method is called and
 * may also become not readable depending on implementation.
 *
 * @return a stream to which data can be written.
 * @throws SQLException
 *         if there is an error processing the XML value. The getCause()
 *         method of the exception may provide a more detailed
 *         exception, for example, if the stream does not contain valid
 *         characters. An exception is thrown if the state is not
 *         writable.
 * @exception SQLFeatureNotSupportedException
 *         if the JDBC driver does not support this method
 * @since 1.6
 */
public synchronized Writer setCharacterStream() throws SQLException {
    checkClosed();
    checkWorkingWithResult();

    this.workingWithResult = true;
}

```

```

return setCharacterStreamInternal();
}

private synchronized Writer setCharacterStreamInternal()
    throws SQLException {
    this.asStringWriter = new StringWriter();

    return this.asStringWriter;
}

/**
 * Returns a Result for setting the XML value designated by this SQLXML
 * instance.
 * <p>
 * The systemID of the Result is implementation dependent.
 * <p>
 * The SQL XML object becomes not writeable when this method is called and
 * may also become not readable depending on implementation.
 * <p>
 * Note that SAX is a callback architecture and the returned SAXResult has a
 * content handler assigned that will receive the SAX events based on the
 * contents of the XML. Call the content handler with the contents of the
 * XML document to assign the values.
 *
 * <pre>
 * SAXResult saxResult = sqlxml.setResult(SAXResult.class);
 * ContentHandler contentHandler = saxResult.getXMLReader().getContentHandler();
 * contentHandler.startDocument();
 * // set the XML elements and attributes into the result
 * contentHandler.endDocument();
 * </pre>
 *
 * @param resultClass
 *     The class of the result, or null. If resultClass is null, a
 *     vendor specific Result implementation will be returned. The
 *     following classes are supported at a minimum:
 *
 * <pre>
 * javax.xml.transform.dom.DOMResult - returns a DOMResult
 * javax.xml.transform.sax.SAXResult - returns a SAXResult
 * javax.xml.transform.stax.StAXResult - returns a StAXResult
 * javax.xml.transform.stream.StreamResult - returns a StreamResult
 * </pre>
 *
 * @return Returns a Result for setting the XML value.
 * @throws SQLException
 *     if there is an error processing the XML value or if this

```

```

*     feature is not supported. The getCause() method of the
*     exception may provide a more detailed exception, for example,
*     if an XML parser exception occurs. An exception is thrown if
*     the state is not writable.
* @exception SQLFeatureNotSupportedException
*     if the JDBC driver does not support this method
* @since 1.6
*/
public synchronized Result setResult(Class clazz) throws SQLException {
    checkClosed();
    checkWorkingWithResult();

    this.workingWithResult = true;
    this.asDOMResult = null;
    this.asSAXResult = null;
    this.saxToReaderConverter = null;
    this.stringRep = null;
    this.asStringWriter = null;
    this.asByteArrayOutputStream = null;

    if (clazz == null || clazz.equals(SAXResult.class)) {
        this.saxToReaderConverter = new SimpleSaxToReader();

        this.asSAXResult = new SAXResult(this.saxToReaderConverter);

        return this.asSAXResult;
    } else if (clazz.equals(DOMResult.class)) {
        this.asDOMResult = new DOMResult();
        return this.asDOMResult;

    } else if (clazz.equals(StreamResult.class)) {
        return new StreamResult(setCharacterStreamInternal());
    } else if (clazz.equals(StAXResult.class)) {
        try {
            if (this.outputFactory == null) {
                this.outputFactory = XMLOutputFactory.newInstance();
            }

            return new StAXResult(this.outputFactory
                .createXMLEventWriter(setCharacterStreamInternal()));
        } catch (XMLStreamException ex) {
            SQLException sqlEx = SQLError.createSQLException(ex
                .getMessage(), SQLError.SQL_STATE_ILLEGAL_ARGUMENT, this.exceptionInterceptor);
            sqlEx.initCause(ex);

            throw sqlEx;
        }
    }
}

```

```

    } else {
        throw SQLException.createSQLException("XML Result of type \""
            + clazz.toString() + "\" Not supported.",
            SQLException.SQL_STATE_ILLEGAL_ARGUMENT, this.exceptionInterceptor);
    }
}

private Reader binaryInputStreamStreamToReader(ByteArrayOutputStream out) {

    try {
        // There's got to be an easier way to do this, but
        // I don't feel like coding up Appendix F of the XML Spec
        // myself, when there's a reusable way to do it, and we
        // can warn folks away from BINARY xml streams that have
        // to be parsed to determine the character encoding :P

        String encoding = "UTF-8";

        try {
            ByteArrayInputStream bIn = new ByteArrayInputStream(out
                .toArray());
            XMLStreamReader reader = this.inputFactory
                .createXMLStreamReader(bIn);

            int eventType = 0;

            while ((eventType = reader.next()) != XMLStreamReader.END_DOCUMENT) {
                if (eventType == XMLStreamReader.START_DOCUMENT) {
                    String possibleEncoding = reader.getEncoding();

                    if (possibleEncoding != null) {
                        encoding = possibleEncoding;
                    }

                    break;
                }
            }
        } catch (Throwable t) {
            // ignore, dealt with later when the string can't be parsed
            // into valid XML
        }

        return new StringReader(new String(out.toArray(), encoding));
    } catch (UnsupportedEncodingException badEnc) {
        throw new RuntimeException(badEnc);
    }
}

```

```

protected String readerToString(Reader reader) throws SQLException {
    StringBuffer buf = new StringBuffer();

    int charsRead = 0;

    char[] charBuf = new char[512];

    try {
        while ((charsRead = reader.read(charBuf)) != -1) {
            buf.append(charBuf, 0, charsRead);
        }
    } catch (IOException ioEx) {
        SQLException sqlEx = SQLError.createSQLException(ioEx
            .getMessage(), SQLError.SQL_STATE_ILLEGAL_ARGUMENT, this.exceptionInterceptor);
        sqlEx.initCause(ioEx);

        throw sqlEx;
    }

    return buf.toString();
}

protected synchronized Reader serializeAsCharacterStream()
    throws SQLException {
    checkClosed();
    if (this.workingWithResult) {
        // figure out what kind of result
        if (this.stringRep != null) {
            return new StringReader(this.stringRep);
        }

        if (this.asDOMResult != null) {
            return new StringReader(domSourceToString());
        }

        if (this.asStringWriter != null) { // stax result
            return new StringReader(this.asStringWriter.toString());
        }

        if (this.asSAXResult != null) {
            return this.saxToReaderConverter.toReader();
        }

        if (this.asByteArrayOutputStream != null) {
            return binaryInputStreamStreamToReader(this.asByteArrayOutputStream);
        }
    }
}

```

```

return this.owningResultSet.getCharacterStream(this.columnIndexofXml);
}

protected String domSourceToString() throws SQLException {
try {
DOMSource source = new DOMSource(this.asDOMResult.getNode());
Transformer identity = TransformerFactory.newInstance()
.newTransformer();
StringWriter stringOut = new StringWriter();
Result result = new StreamResult(stringOut);
identity.transform(source, result);

return stringOut.toString();
} catch (Throwable t) {
SQLException sqlEx = SQLError.createSQLException(
.getMessage(), SQLError.SQL_STATE_ILLEGAL_ARGUMENT, this.exceptionInterceptor);
sqlEx.initCause(t);

throw sqlEx;
}
}

protected synchronized String serializeAsString() throws SQLException {
checkClosed();
if (this.workingWithResult) {
// figure out what kind of result
if (this.stringRep != null) {
return this.stringRep;
}

if (this.asDOMResult != null) {
return domSourceToString();
}

if (this.asStringWriter != null) { // stax result
return this.asStringWriter.toString();
}

if (this.asSAXResult != null) {
return readerToString(this.saxToReaderConverter.toReader());
}

if (this.asByteArrayOutputStream != null) {
return readerToString(
binaryInputStreamStreamToReader(this.asByteArrayOutputStream));
}
}
}

```

```

return this.owningResultSet.getString(this.columnIndexOfXml);
}

/*
 * The SimpleSaxToReader class is an adaptation of the SAX "Writer"
 * example from the Apache XercesJ-2 Project. The license for this
 * code is as follows:
 *
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

class SimpleSaxToReader extends DefaultHandler {
    StringBuffer buf = new StringBuffer();

    public void startDocument() throws SAXException {
        buf.append("<?xml version='1.0' encoding='UTF-8'?>");
    }

    public void endDocument() throws SAXException {
        // Do we need to override this?
    }

    public void startElement(String namespaceURI, String sName,
        String qName, Attributes attrs) throws SAXException {

        this.buf.append("<");
        this.buf.append(qName);

        if (attrs != null) {
            for (int i = 0; i < attrs.getLength(); i++) {
                this.buf.append(" ");
                this.buf.append(attrs.getQName(i)).append("=");
                escapeCharsForXml(attrs.getValue(i), true);
                this.buf.append("\"");
            }
        }
    }
}

```

```

    }

    this.buf.append(">");
}

public void characters(char buf[], int offset, int len)
    throws SAXException {
    if (!this.inCDATA) {
        escapeCharsForXml(buf, offset, len, false);
    } else {
        this.buf.append(buf, offset, len);
    }
}

public void ignorableWhitespace(char ch[], int start, int length)
    throws SAXException {
    characters(ch, start, length);
}

private boolean inCDATA = false;

public void startCDATA() throws SAXException {
    this.buf.append("<![CDATA[");
    this.inCDATA = true;
}

public void endCDATA() throws SAXException {
    this.inCDATA = false;
    this.buf.append("]>");
}

public void comment(char ch[], int start, int length)
    throws SAXException {
    // if (!fCanonical && fElementDepth > 0) {
    this.buf.append("<!--");
    for (int i = 0; i < length; ++i) {
        this.buf.append(ch[start + i]);
    }
    this.buf.append("-->");
    // }
}

Reader toReader() {
    return new StringReader(this.buf.toString());
}

private void escapeCharsForXml(String str, boolean isAttributeData) {
    if (str == null) {

```

```

return;
}

int strLen = str.length();

for (int i = 0; i < strLen; i++) {
    escapeCharsForXml(str.charAt(i), isAttributeData);
}
}

private void escapeCharsForXml(char[] buf, int offset, int len,
    boolean isAttributeData) {

    if (buf == null) {
        return;
    }

    for (int i = 0; i < len; i++) {
        escapeCharsForXml(buf[offset + i], isAttributeData);
    }
}

private void escapeCharsForXml(char c, boolean isAttributeData) {
    switch (c) {
        case '<':
            this.buf.append("&lt;");
            break;

        case '>':
            this.buf.append("&gt;");
            break;

        case '&':
            this.buf.append("&amp;");
            break;

        case '"':

            if (!isAttributeData) {
                this.buf.append("\"");
            }
            else {
                this.buf.append("&quot;");
            }

            break;

        case '\r':

```

```
this.buf.append("&#xD;");  
break;
```

default:

```
if (((c >= 0x01 && c <= 0x1F && c != 0x09 && c != 0x0A)  
    || (c >= 0x7F && c <= 0x9F) || c == 0x2028)  
    || isAttributeData && (c == 0x09 || c == 0x0A)) {  
    this.buf.append("&#x");  
    this.buf.append(Integer.toHexString(c).toUpperCase());  
    this.buf.append(";");  
}  
else {  
    this.buf.append(c);  
}  
}  
}  
}
```

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1.1215 nanomatch-1.2.13.tgz 1.2.13

1.1216 native-lib-loader-2.0.2.jar 2.0.2

1.1217 natural-compare-1.4.0.tgz 1.4.0

1.1218 neo-async-2.6.1.tgz 2.6.1

1.1219 netty-buffer-4.1.44.Final.jar 4.1.44.Final

**1.1220 netty-codec-4.1.44.Final.jar
4.1.44.Final**

1.1221 netty-codec-http-4.1.44.Final.jar
4.1.44.Final

1.1222 netty-codec-socks-4.1.44.Final.jar
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1.1223 netty-common-4.1.44.Final.jar
4.1.44.Final

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1.1225 netty-handler-proxy-4.1.44.Final.jar
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1.1226 netty-resolver-4.1.44.Final.jar
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1.1227 netty-transport-4.1.44.Final.jar
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1.1228 nice-try-1.0.5.tgz 1.0.5

1.1229 nimbus-jose-jwt-8.2.1.jar 8.2.1

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1.1236 nopt-3.0.6.tgz 3.0.6

1.1237 nopt-4.0.1.tgz 4.0.1

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1.1242 normalizr-3.6.0.tgz 3.6.0

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1.5 2004/06/10 18:25:24 olegk Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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1.1264 okhttp-3.14.3.jar 3.14.3

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1.1267 okhttp-urlconnection-3.14.2.jar 3.14.2

1.1268 okio-1.11.0.jar 1.11.0

1.1269 okio-1.12.0.jar 1.12.0

1.1270 okio-1.15.0.jar 1.15.0

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1.1277 opencensus-api-0.19.2.jar 0.19.2

1.1278 opencensus-contrib-grpc-metrics-0.19.2.jar 0.19.2

1.1279 opencensus-contrib-http-util-0.18.0.jar 0.18.0

1.1280 opencensus-contrib-http-util-0.19.2.jar 0.19.2

1.1281 opensaml-2.6.4.jar 2.6.4

1.1282 opentest4j-1.2.0.jar 1.2.0

1.1283 openws-1.5.4.jar 1.5.4

1.1284 optimist-0.6.1.tgz 0.6.1

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1.1288 ora-0.2.3.tgz 0.2.3

1.1289 org.apache.servicemix.bundles.javax-inject-1_2.jar 1_2

1.1290 org.dom4j.dom4j-1.6.1.jar 1.6.1

1.1291 os-homedir-1.0.2.tgz 1.0.2

1.1292 os-tmpdir-1.0.2.tgz 1.0.2

1.1293 osgi-resource-locator-1.0.1.jar 1.0.1

1.1294 p-defer-1.0.0.tgz 1.0.0

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1.1306 Parsley.js 2.0.7

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1.1309 pascalcase-0.1.1.tgz 0.1.1

1.1310 path-0.12.7.tgz 0.12.7

1.1311 path-dirname-1.0.2.tgz 1.0.2

1.1312 path-is-absolute 1.0.1

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1.1317 path-to-regexp 0.1.7

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1.1320 performance-now-2.1.0.tgz 2.1.0

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1.1322 pify-3.0.0.tgz 3.0.0

1.1323 pify-4.0.1.tgz 4.0.1

1.1324 pinkie-2.0.4.tgz 2.0.4

1.1325 pinkie-promise-2.0.1.tgz 2.0.1

1.1326 polyfill-7.4.4.tgz 7.4.4

1.1327 popper.js-1.16.1.tgz 1.16.1

1.1328 posix-character-classes-0.1.1.tgz 0.1.1

1.1329 postcss-6.0.1.tgz 6.0.1

1.1330 postcss-6.0.23.tgz 6.0.23

1.1331 postcss-7.0.27.tgz 7.0.27

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1.1333 postcss-value-parser-3.3.1.tgz 3.3.1

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1.1339 postgresql-42.2.8.jar 42.2.8

**1.1340 postgresql-9.4.1212.jre7.jar
9.4.1212.jre7**

1.1341 prefix-style-2.0.1.tgz 2.0.1

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1.1343 prismjs-1.15.0.tgz 1.15.0

1.1344 private-0.1.8.tgz 0.1.8

1.1345 process-0.11.10.tgz 0.11.10

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1.1347 promise-7.3.1.tgz 7.3.1

1.1348 prop-types-15.6.0.tgz 15.6.0

1.1349 prop-types-15.7.2.tgz 15.7.2

1.1350 proto-google-cloud-monitoring-v3-1.52.0.jar 1.52.0

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1.1352 proto-google-iam-v1-0.12.0.jar 0.12.0

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1.1354 protobuf-java-3.7.0.jar 3.7.0

1.1355 protobuf-java-util-3.7.0.jar 3.7.0

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1.1364 qs-6.7.0.tgz 6.7.0

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1.1368 querydsl-apt-4.2.1.jar 4.2.1

1.1369 querydsl-codegen-4.1.4.jar 4.1.4

1.1370 querydsl-codegen-4.2.1.jar 4.2.1

1.1371 querydsl-core-4.1.4.jar 4.1.4

1.1372 querydsl-jpa-4.1.4.jar 4.1.4

1.1373 querydsl-mongodb-4.1.4.jar 4.1.4

1.1374 querydsl-mongodb-4.2.1.jar 4.2.1

1.1375 querydsl-sql-4.1.4.jar 4.1.4

1.1376 querystring-0.2.0.tgz 0.2.0

1.1377 RabbitMQ 3.6.16

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1.1387 react-0.14.9.tgz 0.14.9

1.1388 react-15.6.2.tgz 15.6.2

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1.1433 recaptcha4j-0.0.7.jar 0.0.7

1.1434 recast-0.11.23.tgz 0.11.23

1.1435 recast-0.12.9.tgz 0.12.9

1.1436 recharts-1.0.0-beta.10.tgz 1.0.0-beta.10

1.1437 recharts-scale-0.3.2.tgz 0.3.2

1.1438 reduce-css-calc-1.3.0.tgz 1.3.0

1.1439 reduce-function-call-1.0.3.tgz 1.0.3

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1.1440 redux-4.0.0.tgz 4.0.0

1.1441 redux-4.0.4.tgz 4.0.4

1.1442 redux-4.0.5.tgz 4.0.5

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1.1443 redux-devtools-extension-2.13.8.tgz

2.13.8

1.1444 redux-logger-2.10.2.tgz 2.10.2

1.1445 redux-logger-3.0.6.tgz 3.0.6

1.1446 redux-thunk-1.0.3.tgz 1.0.3

1.1447 redux-thunk-2.3.0.tgz 2.3.0

1.1448 reflections-0.9.11.jar 0.9.11

1.1449 reflections-0.9.9.jar 0.9.9

**1.1450 regenerate-unicode-properties-
8.1.0.tgz 8.1.0**

1.1451 regenerator-runtime-0.10.5.tgz 0.10.5

1.1452 regenerator-runtime-0.11.1.tgz 0.11.1

1.1453 regenerator-runtime-0.13.3.tgz 0.13.3

1.1454 regex-not-1.0.2.tgz 1.0.2

1.1455 regexpp-2.0.1.tgz 2.0.1

1.1456 repeat-element-1.1.3.tgz 1.1.3

1.1457 repeat-string-1.6.1.tgz 1.6.1

1.1458 repeating-2.0.1.tgz 2.0.1

1.1459 request-2.88.0.tgz 2.88.0

1.1460 request-progress-3.0.0.tgz 3.0.0

1.1461 require.js 2.1.4

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*/
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1.1462 require.js 2.0.6

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1.1464 reselect-4.0.0.tgz 4.0.0

1.1465 resolve-1.1.7.tgz 1.1.7

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1.1468 resolve-from-4.0.0.tgz 4.0.0

1.1469 resolve-pathname-2.2.0.tgz 2.2.0

1.1470 resolve-pathname-3.0.0.tgz 3.0.0

1.1471 restore-cursor-1.0.1.tgz 1.0.1

1.1472 restore-cursor-2.0.0.tgz 2.0.0

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1.1475 rhino-1.7.7.1.jar 1.7.7.1

1.1476 rimraf-2.6.3.tgz 2.6.3

1.1477 rimraf-2.7.1.tgz 2.7.1

1.1478 rimraf-3.0.2.tgz 3.0.2

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1.1480 run-async-2.3.0.tgz 2.3.0

1.1481 runtime-7.6.2.tgz 7.6.2

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1.1485 rxjava-2.1.1.jar 2.1.1

1.1486 rxjs-5.5.12.tgz 5.5.12

1.1487 rxjs-6.5.3.tgz 6.5.3

1.1488 rxjs-6.5.4.tgz 6.5.4

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1.1490 safe-regex-1.1.0.tgz 1.1.0

1.1491 safer-buffer-2.1.2.tgz 2.1.2

1.1492 saxes-3.1.11.tgz 3.1.11

1.1493 scheduler-0.13.6.tgz 0.13.6

1.1494 scheduler-0.15.0.tgz 0.15.0

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1.1497 select-1.1.2.tgz 1.1.2

1.1498 semver-5.3.0.tgz 5.3.0

1.1499 semver-5.7.0.tgz 5.7.0

1.1500 semver-5.7.1.tgz 5.7.1

1.1501 semver-6.3.0.tgz 6.3.0

1.1502 semver-7.0.0.tgz 7.0.0

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1.1503 serialize-0.9.1.tgz 0.9.1

1.1504 set-value-2.0.1.tgz 2.0.1

1.1505 setimmediate-1.0.5.tgz 1.0.5

1.1506 shallowequal-1.1.0.tgz 1.1.0

1.1507 shebang-command-1.2.0.tgz 1.2.0

1.1508 shebang-command-2.0.0.tgz 2.0.0

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1.1512 simple-swizzle-0.2.2.tgz 0.2.2

1.1513 simpleclient-0.7.0.jar 0.7.0

1.1514 simpleclient_common-0.7.0.jar 0.7.0

1.1515 sinon-7.0.0.tgz 7.0.0

1.1516 sinon-chai-3.2.2.tgz 3.2.2

1.1517 slf4j-api-1.7.25.jar 1.7.25

1.1518 slf4j-api-1.7.26.jar 1.7.26

1.1519 slf4j-api-1.7.30.jar 1.7.30

1.1520 slf4j-api-1.7.7.jar 1.7.7

1.1521 slf4j-api-1.8.0-alpha2.jar 1.8.0-alpha2

1.1522 slf4j-log4j12-1.7.25.jar 1.7.25

1.1523 slf4j-log4j12-1.7.7.jar 1.7.7

1.1524 slf4j-nop-1.8.0-alpha2.jar 1.8.0-alpha2

1.1525 slf4j-simple-1.7.26.jar 1.7.26

1.1526 slice-ansi-0.0.4.tgz 0.0.4

1.1527 slice-ansi-2.1.0.tgz 2.1.0

1.1528 smart-mixin-2.0.0.tgz 2.0.0

1.1529 snakeyaml-1.17.jar 1.17

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```

```
package org.yaml.snakeyaml.external.biz.base64Coder;
```

```
/**
 * 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>
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1.1531 snapdragon-0.8.2.tgz 0.8.2

1.1532 snapdragon-node-2.1.1.tgz 2.1.1

1.1533 snapdragon-util-3.0.1.tgz 3.0.1

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1.1542 split-string-3.1.0.tgz 3.1.0

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1.1550 spring-boot-2.2.5.RELEASE.jar
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1.1551 spring-boot-actuator-
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**1.1556 spring-boot-devtools-
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**1.1557 spring-boot-starter-
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**1.1572 spring-boot-starter-security-
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**1.1573 spring-boot-starter-test-
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**1.1577 spring-boot-starter-validation-
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**1.1580 spring-boot-starter-websocket-
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**1.1585 spring-cloud-context-
1.1.7.RELEASE.jar 1.1.7.RELEASE**

**1.1586 spring-cloud-context-
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**1.1587 spring-cloud-kubernetes-core-0.1.6.jar
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**1.1588 spring-cloud-kubernetes-discovery-
0.1.6.jar 0.1.6**

1.1589 spring-cloud-starter-kubernetes 0.1.6

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**1.1592 spring-context-4.3.26.RELEASE.jar
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**1.1594 spring-context-support-
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**1.1597 spring-data-commons-
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1.1598 spring-data-commons-

1.13.23.RELEASE.jar 1.13.23.RELEASE

1.1599 spring-data-jpa-1.11.23.RELEASE.jar

1.11.23.RELEASE

1.1600 spring-data-mongodb-

1.10.15.RELEASE.jar 1.10.15.RELEASE

1.1601 spring-data-mongodb-

1.10.23.RELEASE.jar 1.10.23.RELEASE

1.1602 spring-expression-4.3.17.RELEASE.jar

4.3.17.RELEASE

1.1603 spring-expression-4.3.25.RELEASE.jar

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1.1604 spring-expression-5.2.4.RELEASE.jar

5.2.4.RELEASE

**1.1605 spring-integration-core-
4.3.21.RELEASE.jar 4.3.21.RELEASE**

**1.1606 spring-integration-java-dsl-
1.2.3.RELEASE.jar 1.2.3.RELEASE**

**1.1607 spring-jcl-5.2.4.RELEASE.jar
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**1.1609 spring-messaging-4.3.25.RELEASE.jar
4.3.25.RELEASE**

1.1610 spring-modules-jcr-0.8a.jar 0.8a

**1.1611 spring-orm-4.3.25.RELEASE.jar
4.3.25.RELEASE**

1.1612 spring-oxm-4.3.25.RELEASE.jar
4.3.25.RELEASE

1.1613 spring-plugin-core-1.2.0.RELEASE.jar
1.2.0.RELEASE

1.1614 spring-plugin-metadata-
1.2.0.RELEASE.jar 1.2.0.RELEASE

1.1615 spring-rabbit-1.7.14.RELEASE.jar
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1.1616 spring-retry-1.2.4.RELEASE.jar
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1.1617 spring-retry-1.2.5.RELEASE.jar
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1.1618 spring-security-acl-4.2.13.RELEASE.jar 4.2.13.RELEASE

1.1619 spring-security-acl-4.2.14.RELEASE.jar 4.2.14.RELEASE

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```
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 */
package org.springframework.security.acls.model;

import java.io.Serializable;

/**
 * Represents a permission granted to a <tt>Sid</tt> for a given domain object.
 *
 * @author Ben Alex
 */
public interface Permission extends Serializable {
    // ~ Static fields/initializers
    //
    =====
    ===

    char RESERVED_ON = '~';
    char RESERVED_OFF = '!';
    String THIRTY_TWO_RESERVED_OFF = ".....";
}
```

```

// ~ Methods
//
=====
=====

/**
 * Returns the bits that represents the permission.
 *
 * @return the bits that represent the permission
 */
int getMask();

/**
 * Returns a 32-character long bit pattern String representing this
 * permission.
 * <p>
 * Implementations are free to format the pattern as they see fit, although under no
 * circumstances may { @link #RESERVED_OFF} or { @link #RESERVED_ON} be used within the
 * pattern. An exemption is in the case of { @link #RESERVED_OFF} which is used to
 * denote a bit that is off (clear). Implementations may also elect to use
 * { @link #RESERVED_ON} internally for computation purposes, although this method may
 * not return any String containing { @link #RESERVED_ON}.
 * <p>
 * The returned String must be 32 characters in length.
 * <p>
 * This method is only used for user interface and logging purposes. It is not used in
 * any permission calculations. Therefore, duplication of characters within the output
 * is permitted.
 *
 * @return a 32-character bit pattern
 */
String getPattern();
}

```

**1.1620 spring-security-config-
4.2.13.RELEASE.jar 4.2.13.RELEASE**

**1.1621 spring-security-core-
4.2.13.RELEASE.jar 4.2.13.RELEASE**

**1.1622 spring-security-crypto-
4.2.13.RELEASE.jar 4.2.13.RELEASE**

**1.1623 spring-security-jwt-
1.0.10.RELEASE.jar 1.0.10.RELEASE**

**1.1624 spring-security-saml2-core-
1.0.2.RELEASE.jar 1.0.2.RELEASE**

**1.1625 spring-security-taglibs-
4.2.13.RELEASE.jar 4.2.13.RELEASE**

**1.1626 spring-security-web-
4.2.13.RELEASE.jar 4.2.13.RELEASE**

**1.1627 spring-test-4.3.25.RELEASE.jar
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1.1628 spring-test-5.2.4.RELEASE.jar
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1.1630 spring-web-4.3.25.RELEASE.jar
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1.1631 spring-web-5.2.4.RELEASE.jar
5.2.4.RELEASE

1.1632 spring-webmvc-4.3.25.RELEASE.jar
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1.1633 spring-webmvc-5.2.4.RELEASE.jar
5.2.4.RELEASE

1.1634 spring-websocket-4.3.25.RELEASE.jar
4.3.25.RELEASE

1.1635 springfox-core-2.8.0.jar 2.8.0

1.1636 springfox-schema-2.8.0.jar 2.8.0

1.1637 springfox-spi-2.8.0.jar 2.8.0

1.1638 springfox-spring-web-2.8.0.jar 2.8.0

**1.1639 springfox-swagger-common-2.8.0.jar
2.8.0**

1.1640 springfox-swagger-ui-2.8.0.jar 2.8.0

1.1641 springfox-swagger2-2.8.0.jar 2.8.0

1.1642 sprintf-js-1.0.3.tgz 1.0.3

1.1643 sshpk-1.16.1.tgz 1.16.1

1.1644 static-extend-0.1.2.tgz 0.1.2

1.1645 stax-api-1.0-2.jar 1.0-2

1.1646 stax-ex-1.8.jar 1.8

1.1647 stax2-api-3.1.4.jar 3.1.4

1.1648 stream-to-observable-0.1.0.tgz 0.1.0

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1.1650 string-width 1.0.2

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1.1651 string-width-2.1.1.tgz 2.1.1

1.1652 string-width-3.1.0.tgz 3.1.0

1.1653 string-width-4.2.0.tgz 4.2.0

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1.1654 string_decoder-1.1.1.tgz 1.1.1

1.1655 strip-ansi 3.0.1

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1.1656 strip-ansi-4.0.0.tgz 4.0.0

1.1657 strip-ansi-5.2.0.tgz 5.2.0

1.1658 strip-ansi-6.0.0.tgz 6.0.0

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1.1660 strip-final-newline-2.0.0.tgz 2.0.0

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1.1661 strip-json-comments-2.0.1.tgz 2.0.1

1.1662 styled-components-3.4.10.tgz 3.4.10

1.1663 styled-components-3.4.4.tgz 3.4.4

1.1664 styled-components-4.4.1.tgz 4.4.1

1.1665 stylis-0.7.1.tgz 0.7.1

1.1666 stylis-3.5.4.tgz 3.5.4

1.1667 stylis-rule-sheet-0.0.10.tgz 0.0.10

1.1668 supports-color-2.0.0.tgz 2.0.0

1.1669 supports-color-3.2.3.tgz 3.2.3

1.1670 supports-color-5.4.0.tgz 5.4.0

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1.1672 supports-color-6.1.0.tgz 6.1.0

1.1673 supports-color-7.1.0.tgz 7.1.0

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1.1674 swagger-annotations-1.5.14.jar 1.5.14

1.1675 swagger-annotations-1.5.22.jar 1.5.22

1.1676 swagger-models-1.5.14.jar 1.5.14

1.1677 symbol-observable-1.0.1.tgz 1.0.1

1.1678 symbol-observable-1.2.0.tgz 1.2.0

1.1679 tabbable-1.1.3.tgz 1.1.3

1.1680 table-5.4.6.tgz 5.4.6

1.1681 tcp-unix-socket-proxy-1.0.2.jar 1.0.2

1.1682 template-7.8.3.tgz 7.8.3

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1.1684 testcontainers-1.12.2.jar 1.12.2

1.1685 testdata 1.1.0

1.1686 testng-6.14.3.jar 6.14.3

1.1687 text-table-0.2.0.tgz 0.2.0

1.1688 threetenbp-1.3.3.jar 1.3.3

1.1689 throttle-debounce-2.1.0.tgz 2.1.0

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1.1691 through-2.3.8.tgz 2.3.8

1.1692 tika-core-1.22.jar 1.22

1.1693 tiny-emitter-2.1.0.tgz 2.1.0

1.1694 tiny-invariant-1.1.0.tgz 1.1.0

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1.1696 tmp-0.0.33.tgz 0.0.33

1.1697 tmp-0.1.0.tgz 0.1.0

1.1698 to-camel-case-1.0.0.tgz 1.0.0

1.1699 to-fast-properties-1.0.3.tgz 1.0.3

1.1700 to-fast-properties-2.0.0.tgz 2.0.0

1.1701 to-no-case-1.0.2.tgz 1.0.2

1.1702 to-object-path-0.3.0.tgz 0.3.0

1.1703 to-regex-3.0.2.tgz 3.0.2

1.1704 to-space-case-1.0.0.tgz 1.0.0

1.1705 toidentifier-1.0.0.tgz 1.0.0

**1.1706 tomcat-annotations-api-8.5.40.jar
8.5.40**

**1.1707 tomcat-annotations-api-8.5.43.jar
8.5.43**

**1.1708 tomcat-annotations-api-8.5.50.jar
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- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
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- web-common_3_0.xsd
- web-fragment_3_0.xsd
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- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd

- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd

may be obtained from:

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1.1713 tomcat-embed-core-9.0.31.jar 9.0.31

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1.1725 tomcat-jdbc-8.5.50.jar 8.5.50

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1.1765 uri-template-0.9.jar 0.9

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Version 3, 29 June 2007

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1.1767 use-3.1.1.tgz 3.1.1

1.1768 utf8-3.0.0.tgz 3.0.0

1.1769 util-0.10.3.tgz 0.10.3

1.1770 util-0.10.4.tgz 0.10.4

1.1771 util-0.11.1.tgz 0.11.1

1.1772 util-deprecate-1.0.2.tgz 1.0.2

1.1773 utils-0.8.2.tgz 0.8.2

1.1774 utils4j-0.7.0.jar 0.7.0

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*/

package org.fuin.utils4j;

/**

```

* A unit of work that is cancelable.
*/
public interface Cancelable {

    /**
     * Try to cancel the unit of work.
     */
    public void cancel();

    /**
     * Returns if the unit of work was canceled.
     *
     * @return If it was canceled <code>>true</code> else <code>>false</code>.
     */
    public boolean isCanceled();
}

```

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1.1775 uuid-3.1.0.tgz 3.1.0

1.1776 uuid-3.4.0.tgz 3.4.0

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1.1777 validation-api-1.0.0.GA.jar 1.0.0.GA

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```
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1.1779 validator-11.0.0.tgz 11.0.0

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1.1781 value-equal-1.0.1.tgz 1.0.1

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1998-05-11

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2000-05-05

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1.1809 xmlunit-core-2.5.1.jar 2.5.1

1.1810 xmlunit-core-2.6.3.jar 2.6.3

1.1811 xpp3-1.1.4c.jar 1.1.4c

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1.1813 yaml-1.7.2.tgz 1.7.2

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1.1815 yauzl-2.10.0.tgz 2.10.0

1.1816 yauzl-2.4.1.tgz 2.4.1

1.1817 yavijava-6.0.05.jar 6.0.05

1.1818 zjsonpatch-0.3.0.jar 0.3.0

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