Open Source Used In Edge and Fog Processing Module 1.6.0

Cisco Systems, Inc.
www.cisco.com

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco website at www.cisco.com/go/offices.

Text Part Number: 78EE117C99-185114785
This document contains licenses and notices for open source software used in this product. With respect to the free/open source software listed in this document, if you have any questions or wish to receive a copy of any source code to which you may be entitled under the applicable free/open source license(s) (such as the GNU Lesser/General Public License), please contact us at external-opensource-requests@cisco.com.

In your requests please include the following reference number 78EE117C99-185114785

Contents

1.1 @types/async 2.0.49
    1.1.1 Available under license
1.2 @types/graphql 0.12.6
    1.2.1 Available under license
1.3 @types/zen-observable 0.5.4
    1.3.1 Available under license
1.4 alphanum-sort-dart 0.1.1
    1.4.1 Available under license
1.5 annotations 13.0
1.6 annotations 3.0.1
    1.6.1 Available under license
1.7 antlr4-runtime 4.7.1
1.8 Apache Commons BeanUtils 1.9.2
    1.8.1 Available under license
1.9 Apache Commons Logging 1.2
    1.9.1 Available under license
1.10 Apache Commons Pool 2.6.0
    1.10.1 Available under license
1.11 apiguardian-api 1.0.0
1.12 apollo-cache 1.1.12
1.13 apollo-cache-inmemory 1.2.5
1.14 apollo-client 2.3.5
    1.14.1 Available under license
1.15 apollo-link 1.2.2
1.16 apollo-link-dedup 1.0.9
1.17 apollo-link-error 1.1.0
<table>
<thead>
<tr>
<th>Library</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>apollo-link-http</td>
<td>1.5.4</td>
</tr>
<tr>
<td>apollo-link-http-common</td>
<td>0.2.4</td>
</tr>
<tr>
<td>apollo-utilities</td>
<td>1.0.16</td>
</tr>
<tr>
<td>archive</td>
<td>2.0.0</td>
</tr>
<tr>
<td>async-dart</td>
<td>1.12.0</td>
</tr>
<tr>
<td>bcprov-jdk15on</td>
<td>1.60</td>
</tr>
<tr>
<td>Boost Library</td>
<td>1.67</td>
</tr>
<tr>
<td>boost.process</td>
<td>0.5</td>
</tr>
<tr>
<td>btf</td>
<td>1.2</td>
</tr>
<tr>
<td>byte-buddy</td>
<td>1.7.9</td>
</tr>
<tr>
<td>byte-buddy-agent</td>
<td>1.7.9</td>
</tr>
<tr>
<td>cache-api</td>
<td>1.0.0</td>
</tr>
<tr>
<td>candiedyaml</td>
<td>1.0</td>
</tr>
<tr>
<td>charted-dart</td>
<td>0.4.0+1</td>
</tr>
<tr>
<td>circular-json</td>
<td>0.5.5</td>
</tr>
<tr>
<td>com.h2database:h2</td>
<td>1.4.197</td>
</tr>
<tr>
<td>Commons Collections</td>
<td>3.2.1</td>
</tr>
<tr>
<td>Commons Digester</td>
<td>1.8.1</td>
</tr>
<tr>
<td>Commons Logging</td>
<td>1.1.1</td>
</tr>
<tr>
<td>commons-codec</td>
<td>1.6</td>
</tr>
<tr>
<td>commons-collections</td>
<td>3.2.2</td>
</tr>
<tr>
<td>commons-dbcp2</td>
<td>2.5.0</td>
</tr>
<tr>
<td>commons-lang3</td>
<td>3.5</td>
</tr>
</tbody>
</table>
1.40.1 Available under license
1.41 commons-lang3 3.8
   1.41.1 Available under license
1.42 commons-validator 1.6
   1.42.1 Available under license
1.43 crypto 2.0.2
   1.43.1 Available under license
1.44 csv-dart 2.0.1
   1.44.1 Available under license
1.45 dart-lang sdk 1.21.1
   1.45.1 Available under license
1.46 dart-lzma 0.3.0
   1.46.1 Available under license
1.47 dart-xml 2.4.3
   1.47.1 Available under license
1.48 dartdap 0.2.2
   1.48.1 Available under license
1.49 dateformat 3.0.2
   1.49.1 Available under license
1.50 deprecated-decorator 0.1.6
1.51 dglux5 5.0 :1321
   1.51.1 Available under license
1.52 docker 1.12 :g3990f28
   1.52.1 Available under license
1.53 docker-go-units 0.3.1-6 :gf2145db
   1.53.1 Available under license
1.54 dsbroker 1.1.0
   1.54.1 Available under license
1.55 dslink 0.20.1
   1.55.1 Available under license
1.56 dslink-dart-dql 72445afc32028d9614ed2a5904edade034e0688e
   1.56.1 Available under license
1.57 dslink-dart-system 93cfbb439824087ad7e2422f5ba60d7db73ec2a4
   1.57.1 Available under license
1.58 dslink-java-jdbc 0.2.1
   1.58.1 Available under license
1.59 dsllink-alarm 1.9.0
   1.59.1 Available under license
1.60 duosecurity-dart 0.0.1
1.60.1 Available under license

1.61 fast-json-stable-stringify 2.0.0
   1.61.1 Available under license

1.62 ghodss-yaml 1.0
   1.62.1 Available under license

1.63 git 1.8.3.1 :13.el7
   1.63.1 Available under license

1.64 glob 1.0.5
   1.64.1 Available under license

1.65 go 1.6.2
   1.65.1 Available under license

1.66 go 1.9.7
   1.66.1 Available under license

1.67 go-ansiterm 0.1 :fa152c58bc15761d0200cb75fe958b89a9d4888e
   1.67.1 Available under license

1.68 go-blackfriday 1.4
   1.68.1 Available under license

1.69 go-cleanhttp 0.1 :ad28ea4487f05916463e2423a55166280e8254b5
   1.69.1 Available under license

1.70 go-cli 1.2
   1.70.1 Available under license

1.71 go-crypto 9419663f5a44be8b34ca85f08abc5fe1be11f8a3
   1.71.1 Available under license

1.72 go-curve25519 1.6
   1.72.1 Available under license

1.73 go-dockerclient 0.1 :3162ed100df52ad76c94cdf1b8b2a45d4f5e203d
   1.73.1 Available under license

1.74 go-ed25519 1.6
   1.74.1 Available under license

1.75 go-net 0.1 :ef00b378c73f107bf44d5c9b69875255ce89b79a
   1.75.1 Available under license

1.76 go-shutil 1.6
   1.76.1 Available under license

1.77 go-ssh 1.6
   1.77.1 Available under license

1.78 go-sys 0.1 :9bb9f0998d48b31547d975974935ae9b48c7a03c
   1.78.1 Available under license

1.79 go-winio 0.3.5-2 :gce2922f
   1.79.1 Available under license
1.80 go-yaml 2.0 :a5b47d31c556af34a302ce5d659e6f4a44d90de0
  1.80.1 Available under license
1.81 gojsonpointer 1.0
  1.81.1 Available under license
1.82 gojsonreference 1.0
  1.82.1 Available under license
1.83 gojsonschema 1.0
  1.83.1 Available under license
1.84 google-maps-dart 2.0.7
  1.84.1 Available under license
1.85 gopass 1.6
  1.85.1 Available under license
1.86 goreq 1.6
  1.86.1 Available under license
1.87 graphql 0.13.2
  1.87.1 Available under license
1.88 graphql-anywhere 4.1.14
  1.88.1 Available under license
1.89 graphql-java 8.0
1.90 graphql-tag 2.9.2
  1.90.1 Available under license
1.91 graphql-tools 3.0.5
  1.91.1 Available under license
1.92 h2 1.4.195
1.93 Hamcrest Core 1.3
  1.93.1 Available under license
1.94 hibernate-jpa-2.1-api 1.0.0.Final
  1.94.1 Available under license
1.95 http_multi_server 2.0.3
  1.95.1 Available under license
1.96 http_server-dart 0.9.6
  1.96.1 Available under license
1.97 ignite-core 2.3.0
  1.97.1 Available under license
1.98 ignite-indexing 2.3.0
  1.98.1 Available under license
1.99 ignite-shmem 1.0.0
  1.99.1 Available under license
1.100 ignite-slf4j 2.3.0
<table>
<thead>
<tr>
<th>Version</th>
<th>Description</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.100.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.101</td>
<td>ignite-spring 2.3.0</td>
<td></td>
</tr>
<tr>
<td>1.101.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.102</td>
<td>intl 0.15.0</td>
<td></td>
</tr>
<tr>
<td>1.102.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.103</td>
<td>iteral 1.2.2</td>
<td></td>
</tr>
<tr>
<td>1.103.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.104</td>
<td>jackson-annotations 2.9.0</td>
<td></td>
</tr>
<tr>
<td>1.104.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.105</td>
<td>jackson-core 2.9.5</td>
<td></td>
</tr>
<tr>
<td>1.105.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.106</td>
<td>jackson-core 2.9.4</td>
<td></td>
</tr>
<tr>
<td>1.106.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.107</td>
<td>jackson-coreutils 1.6</td>
<td></td>
</tr>
<tr>
<td>1.107.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.108</td>
<td>jackson-databind 2.9.4</td>
<td></td>
</tr>
<tr>
<td>1.108.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.109</td>
<td>jackson-databind 2.8.10</td>
<td></td>
</tr>
<tr>
<td>1.109.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.110</td>
<td>jackson-databind 2.8.11.1</td>
<td></td>
</tr>
<tr>
<td>1.110.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.111</td>
<td>jackson-dataformat-msgpack 0.8.16</td>
<td></td>
</tr>
<tr>
<td>1.111.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.112</td>
<td>jackson-dataformat-yaml 2.9.1</td>
<td></td>
</tr>
<tr>
<td>1.112.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.113</td>
<td>jackson-dataformat-yaml 2.9.6</td>
<td></td>
</tr>
<tr>
<td>1.113.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.114</td>
<td>java-dataloader 2.0.2</td>
<td></td>
</tr>
<tr>
<td>1.115</td>
<td>JavaBeans Activation Framework (JAF) 1.1</td>
<td></td>
</tr>
<tr>
<td>1.116</td>
<td>JavaMail API jar 1.4.3</td>
<td></td>
</tr>
<tr>
<td>1.116.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.117</td>
<td>jcommander 1.72</td>
<td></td>
</tr>
<tr>
<td>1.118</td>
<td>jdbc-postgres 8.4.702</td>
<td></td>
</tr>
<tr>
<td>1.118.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.119</td>
<td>jgrapht-core 1.1.0</td>
<td></td>
</tr>
<tr>
<td>1.120</td>
<td>JLine 2.12</td>
<td></td>
</tr>
<tr>
<td>1.120.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.121</td>
<td>jna 4.5.2</td>
<td></td>
</tr>
</tbody>
</table>
1.122 jopt-simple 5.0.3
   1.122.1 Available under license
1.123 js-tokens 4.0.0
   1.123.1 Available under license
1.124 json-patch 1.6
   1.124.1 Available under license
1.125 json-schema-core 1.2.8
   1.125.1 Available under license
1.126 json-schema-validator 0.1.13
1.127 json-schema-validator 2.2.8
   1.127.1 Available under license
1.128 Json.NET 11.0.2
   1.128.1 Available under license
1.129 jsr305 3.0.1
   1.129.1 Available under license
1.130 JUnit 4.12
   1.130.1 Available under license
1.131 junit-jupiter-api 5.0.1
   1.131.1 Available under license
1.132 junit-platform-commons 1.0.1
   1.132.1 Available under license
1.133 legit-dart 0.1.1
   1.133.1 Available under license
1.134 libphonenumber 8.0.0
   1.134.1 Available under license
1.135 lodash 4.17.4
   1.135.1 Available under license
1.136 lodash.merge 4.6.1
   1.136.1 Available under license
1.137 logging 0.20.1
1.138 logrus 0.10.0-38 :g3ec0642
   1.138.1 Available under license
1.139 loose-envify 1.4.0
   1.139.1 Available under license
1.140 lua-resty-hmac 0.02
1.141 lua-resty-http 0.12
   1.141.1 Available under license
1.142 lua-resty-jwt 0.1.11
   1.142.1 Available under license
1.143 lua-resty-openidc 1.6.1
   1.143.1 Available under license

1.144 lua-resty-session 2.22
   1.144.1 Available under license

1.145 lucene-analyzers-common 5.5.2
   1.145.1 Available under license

1.146 lucene-core 5.5.2
   1.146.1 Available under license

1.147 lucene-queries 5.5.2
   1.147.1 Available under license

1.148 lucene-queryparser 5.5.2
   1.148.1 Available under license

1.149 lucene-sandbox 5.5.2
   1.149.1 Available under license

1.150 lz4 r131 :1
   1.150.1 Available under license

1.151 lz4/gplv2_programs r131 :1
   1.151.1 Available under license

1.152 math_expressions 0.2.0+1
   1.152.1 Available under license

1.153 mime_type 0.1.8
   1.153.1 Available under license

1.154 mockito-core 2.12.0
   1.154.1 Available under license

1.155 Mozilla Rhino 1.7R4
   1.155.1 Available under license

1.156 msg-simple 1.1
   1.156.1 Available under license

1.157 msgpack-core 0.8.14
1.158 msgpack-core 0.8.16
1.159 mysql-connector-java 6.0.6
1.160 netty 4.1.25
   1.160.1 Available under license

1.161 netty-all 4.1.28.Final
   1.161.1 Available under license

1.162 netty-buffer 4.1.19.Final
1.163 netty-codec 4.1.19.Final
1.164 netty-codec-dns 4.1.19.Final
1.165 netty-codec-http 4.1.19.Final
1.166 netty-codec-http2 4.1.19.Final
1.167 netty-codec-socks 4.1.19.Final
1.168 netty-common 4.1.19.Final
1.169 netty-handler 4.1.19.Final
1.170 netty-handler-proxy 4.1.19.Final
1.171 netty-resolver 4.1.19.Final
1.172 netty-resolver-dns 4.1.19.Final
1.173 netty-transport 4.1.19.Final
1.174 null 0.9
    1.174.1 Available under license
1.175 oauth-dart 1.1.1-dev3
    1.175.1 Available under license
1.176 objenesis 2.6
    1.176.1 Available under license
1.177 opentest4j 1.0.0
1.178 package_config 0.1.5
    1.178.1 Available under license
1.179 parstream-authentication 1.2
    1.179.1 Available under license
1.180 password_hasher 0.3.1
    1.180.1 Available under license
1.181 path-dart 1.4.2
    1.181.1 Available under license
1.182 petitparser-dart 1.5.3
    1.182.1 Available under license
1.183 postgresql-jdbc 42.2.5
    1.183.1 Available under license
1.184 psqlodbc 09.01.0100
    1.184.1 Available under license
1.185 pub_semver 1.3.2
    1.185.1 Available under license
1.186 quiver-dart 0.22.0
    1.186.1 Available under license
1.187 RapidJSON 1.1.0
    1.187.1 Available under license
1.188 runc 1.0.0-rc1-218 :ga2a6e82
    1.188.1 Available under license
1.189 runtime_shared 0.20.1
1.190 rxjava 2.1.3
1.191 sanitized_anchor_name 0.1 :10ef21a441db47d8b13ebcc5fd2310f636973c77
   1.191.1 Available under license
1.192 sdk-dslink-dart 1.0.0
   1.192.1 Available under license
1.193 slf4j-api 1.7.25
   1.193.1 Available under license
1.194 slf4j-ext 1.7.25
1.195 snakeyaml 1.18
1.196 spring-beans 4.3.7.RELEASE
   1.196.1 Available under license
1.197 spring-context 4.3.7.RELEASE
   1.197.1 Available under license
1.198 spring-core 4.3.7.RELEASE
   1.198.1 Available under license
1.199 spring-expression 4.3.7.RELEASE
   1.199.1 Available under license
1.200 sqlite 3.24.0-r0
1.201 stack_trace 1.7.3
   1.201.1 Available under license
1.202 Statemachine master
   1.202.1 Available under license
1.203 stich-dart 0.2.0+4
   1.203.1 Available under license
1.204 swagger-annotations 1.5.18
   1.204.1 Available under license
1.205 swagger-annotations 2.0.0-rc4
   1.205.1 Available under license
1.206 swagger-compat-spec-parser 1.0.34
1.207 swagger-core 2.0.0-rc4
1.208 swagger-core 1.5.18
1.209 swagger-models 1.5.18
   1.209.1 Available under license
1.210 swagger-models 2.0.0-rc4
   1.210.1 Available under license
1.211 swagger-parser 1.0.34
1.212 swagger-parser 2.0.0-rc3
1.213 swagger-parser-core 2.0.0-rc3
1.214 swagger-parser-v2-converter 2.0.0-rc3
1.215 swagger-parser-v3 2.0.0-rc3
1.216 symbol-observable 1.2.0
  1.216.1 Available under license
1.217 system_info 0.0.16
  1.217.1 Available under license
1.218 tcmalloc (including perftools and libunwind) 2.4.91
  1.218.1 Available under license
1.219 throttle-debounce 2.0.0
  1.219.1 Available under license
1.220 toml.dart 0.4.0
  1.220.1 Available under license
1.221 typed_data 1.1.3
  1.221.1 Available under license
1.222 utf 0.9.0+3
  1.222.1 Available under license
1.223 uuid 3.3.2
  1.223.1 Available under license
1.224 vertx-auth-common 3.5.4
1.225 vertx-auth-jwt 3.5.4
1.226 vertx-bridge-common 3.5.4
1.227 vertx-core 3.5.4
  1.227.1 Available under license
1.228 vertx-ignite 3.5.4
1.229 vertx-jwt 3.5.4
1.230 vertx-rx-java2 3.5.4
1.231 vertx-service-discovery 3.5.4
1.232 vertx-service-factory 3.5.4
1.233 vertx-service-proxy 3.5.4
1.234 vertx-web 3.5.4
1.235 vertx-web-api-contract 3.5.4
1.236 vue 2.5.16
  1.236.1 Available under license
1.237 vue-apollo 3.0.0-beta.19
1.238 vue-clickaway 2.2.2
  1.238.1 Available under license
1.239 vue-js-modal 1.3.6
  1.239.1 Available under license
1.240 vue-progressbar 0.7.5
  1.240.1 Available under license
1.241 vue-router 3.0.1
1.241.1 Available under license
1.242 vue-scroll 2.1.6
   1.242.1 Available under license
1.243 vue-wait 1.3.1
   1.243.1 Available under license
1.244 vuex 3.0.1
   1.244.1 Available under license
1.245 vuex-persist 1.4.3
   1.245.1 Available under license
1.246 watcher 0.9.7+3
   1.246.1 Available under license
1.247 yajl-2.0.1 2.0.1
   1.247.1 Available under license
1.248 yaml 2.1.7
   1.248.1 Available under license
1.249 yamlicious 0.0.5
   1.249.1 Available under license
1.250 zen-observable 0.8.8
   1.250.1 Available under license
1.251 zen-observable-ts 0.8.9
   1.251.1 Available under license

1.1 @types/async 2.0.49
1.1.1 Available under license :

MIT License

Copyright (c) Microsoft Corporation. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE

1.2 @types/graphql 0.12.6
1.2.1 Available under license:
MIT License

Copyright (c) Microsoft Corporation. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE

1.3 @types/zen-observable 0.5.4
1.3.1 Available under license:
MIT License

Copyright (c) Microsoft Corporation. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.4 alphanum-sort-dart 0.1.1

1.4.1 Available under license:

Copyright (c) 2016, Rick Zhou
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.5 annotations 13.0

1.6 annotations 3.0.1
1.6.1 Available under license:
GNU Lesser Public License
http://www.gnu.org/licenses/lgpl.html

1.7 antlr4-runtime 4.7.1

1.8 Apache Commons BeanUtils 1.9.2
1.8.1 Available under license:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Commons BeanUtils
Copyright 2000-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

1.9 Apache Commons Logging 1.2

1.9.1 Available under license:

Apache Commons Logging
Copyright 2003-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

/*
 * Licensed to the Apache Software Foundation (ASF) under one or more
 * contributor license agreements. See the NOTICE file distributed with
 * this work for additional information regarding copyright ownership.
 * The ASF licenses this file to You under the Apache License, Version 2.0
 * (the "License"); you may not use this file except in compliance with
 * the License. You may obtain a copy of the License at
 * http://www.apache.org/licenses/LICENSE-2.0
*/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a
Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.10 Apache Commons Pool 2.6.0

1.10.1 Available under license :

Apache Commons Pool
Copyright 2001-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License);
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

APACHE COMMONS POOL DERIVATIVE WORKS:

The LinkedBlockingDeque implementation is based on an implementation written by
Doug Lea with assistance from members of JCP JSR-166 Expert Group and released
to the public domain, as explained at
http://creativecommons.org/licenses/publicdomain
1.11 apiguardian-api 1.0.0

1.12 apollo-cache 1.1.12

1.13 apollo-cache-inmemory 1.2.5

1.14 apollo-client 2.3.5
1.14.1 Available under license:

The MIT License (MIT)

Copyright (c) 2015 - 2016 Meteor Development Group, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.15 apollo-link 1.2.2
1.16 apollo-link-dedup 1.0.9

1.17 apollo-link-error 1.1.0

1.18 apollo-link-http 1.5.4

1.19 apollo-link-http-common 0.2.4

1.20 apollo-utilities 1.0.16

1.21 archive 2.0.0
1.21.1 Available under license :

Copyright 2013 Brendan Duncan

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Some code has been derived from the following projects:

zlib/inflate:
JavaScript Zlib Library, https://github.com/imaya/zlib.js
The MIT License
Copyright (c) 2012 imaya

zlib/deflate:
Copyright (c) 2000-2011 ymnk, JCraft,Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the distribution.

3. The names of the authors may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT,
INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

bzip2:
This program, "bzip2", the associated library "libbzip2", and all
documentation, are copyright (C) 1996-2010 Julian R Seward. All
rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must
   not claim that you wrote the original software. If you use this
   software in a product, an acknowledgment in the product
   documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must
not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR `AS IS` AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
Copyright 2014 Shelf Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.22 async-dart 1.12.0

1.22.1 Available under license:

Copyright 2015, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided
with the distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.23 bcprov-jdk15on 1.60

1.24 Boost Library 1.67
1.24.1 Available under license:
  Copyright Louis Dionne 2013-2017

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

<!-- Copyright 2018 Paul Fultz II
 Distributed under the Boost Software License, Version 1.0.
 (http://www.boost.org/LICENSE_1_0.txt)
 -->

License
=======

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER

Boost.Geometry (aka GGL, Generic Geometry Library)

Copyright (c) 2007-2013 Barend Gehrels, Amsterdam, the Netherlands.
Copyright (c) 2008-2013 Bruno Lalande, Paris, France.
Copyright (c) 2009-2013 Mateusz Loskot, London, UK.

Use, modification and distribution is subject to the Boost Software License,
Version 1.0. (See accompanying file LICENSE_1_0.txt or copy at
http://www.boost.org/LICENSE_1_0.txt)

Use of this software is granted under one of the following two licenses,
to be chosen freely by the user.

Copyright (c) 2006, 2007 Marcin Kalicinski

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

2. The MIT License

Copyright (c) 2006, 2007 Marcin Kalicinski

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
Software License, Version 1.0

Copyright 2002-2003, Trustees of Indiana University.
Copyright 2000-2001, University of Notre Dame.
All rights reserved.

Indiana University has the exclusive rights to license this product under the following license.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* All redistributions of source code must retain the above copyright notice, the list of authors in the original source code, this list of conditions and the disclaimer listed in this license;

* All redistributions in binary form must reproduce the above copyright notice, this list of conditions and the disclaimer listed in this license in the documentation and/or other materials provided with the distribution;

* Any documentation included with all redistributions must include the following acknowledgement:

"This product includes software developed at the University of Notre Dame and the Pervasive Technology Labs at Indiana University. For technical information contact Andrew Lumsdaine at the Pervasive Technology Labs at Indiana University. For administrative and license questions contact the Advanced Research and Technology Institute at 351 West 10th Street, Indianapolis, Indiana 46202, phone 317-278-4100, fax 317-274-5902."

Alternatively, this acknowledgement may appear in the software itself, and wherever such third-party acknowledgments normally appear.

* The name Indiana University, the University of Notre Dame or "Caramel" shall not be used to endorse or promote products derived from this software without prior written permission from Indiana University. For written permission, please contact Indiana University Advanced Research & Technology Institute.

* Products derived from this software may not be called "Caramel", nor may Indiana University, the University of Notre Dame or "Caramel" appear in their name, without prior written permission of Indiana University Advanced Research & Technology Institute.

Indiana University provides no reassurances that the source code provided does not infringe the patent or any other intellectual property rights of any other entity. Indiana University disclaims any liability to any recipient for claims brought by any other entity based on infringement of intellectual property
licensees and makes no representation that software is free of infringement of third party patent, copyright, or other proprietary rights. indiana university makes no warranties that software is free from "bugs", "viruses", "trojan horses", "trap doors", "worms", or other harmful code. licensee assumes the entire risk as to the performance of software and/or associated materials, and to the performance and validity of information generated using software.

the following people hereby grant permission to replace all existing licenses on their contributions to boost with the boost software license, version 1.0. (boostinspect:nolicense boostinspect:nocopyright)

aleksey gurtovoy (agurtovoy@meta-comm.com)
andrei alexandrescu (andrewalex - at - hotmail.com) (see boost list message of august 12, 2004 11:06:58 am est)
andrew lumsdaine ()
anthony williams (anthony -at- justsoftwaresolutions.co.uk)
beman dawes (bdawes@acm.org)
brad king (brad.king -at- kitware.com) (see boost list message of wed, 21 jul 2004 11:15:46 -0400)
brian osman (osman -at- vvisions.com) (see cvs log)
brian da silva de oliveira (bruno - at - esss.com.br)
christain engstrom (christian.engstrom -at- glindra.org) (see boost list message of mon, 30 aug 2004 14:31:49 +0200)
cromwell d enage (sponage -at- yahoo.com) (see boost list message of august 12, 2004 11:49:13 am est)
dan gohman (djg -at- cray.com) (see boost list messsage of sat, 21 aug 2004 10:54:59 +0100)
dan nuffer (dan -at- nuffer.name)
daniel frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
daniel nuffer (dan -at- nuffer.name)
darin adler (darin -at- bentspoon.com) (email to andreas huber, see change log)
daryle walker (darylew - at - hotmail.com)
dave abrahams (dave@boost-consulting.com)
dave moore (dmoore -at- viefinancial.com) (see boost list message of 18 dec 2003 15:35:50 -0500)
david abrahams (dave@boost-consulting.com)
dietmar kuehl (dietmar_kuehl -at- yahoo.com) (email to andreas huber, see change log)
douglas gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
dr john maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un5o6n902 -at- sneakemail.com) (See boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carbballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See cvs log)
Gary Powell (powellg - at - amazon.com) (See boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)
1.25 boost.process 0.5

1.25.1 Available under license:

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

--- end ---
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.26 btf 1.2

1.26.1 Available under license:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

This software is dual-licensed under:

- the Lesser General Public License (LGPL) version 3.0 or, at your option, any later version;
- the Apache Software License (ASL) version 2.0.

The text of both licenses is included (under the names LGPL-3.0.txt and ASL-2.0.txt respectively).

Direct link to the sources:

- LGPL 3.0: https://www.gnu.org/licenses/lgpl-3.0.txt
- ASL 2.0: http://www.apache.org/licenses/LICENSE-2.0.txt

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.
As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the
Open Source Used In Edge and Fog Processing Module 1.6.0

A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.27 byte-buddy 1.7.9

1.28 byte-buddy-agent 1.7.9

1.29 cache-api 1.0.0
1.29.1 Available under license:
JSR-000107 JCACHE 2.9 Public Review - Updated Specification License
https://raw.github.com/jsr107/jsr107spec/master/LICENSE.txt

1.30 candiedyaml 1.0
1.30.1 Available under license:
Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.
"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

1.31 charted-dart 0.4.0+1

1.31.1 Available under license:
Copyright (c) 2015, Google. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.32 circular-json 0.5.5
1.32.1 Available under license:

/*!

*/
Copyright (C) 2013-2017 by Andrea Giammarchi - @WebReflection

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

1.33 com.h2database:h2 1.4.197

1.33.1 Available under license:

Java Service Wrapper
http://wrapper.tanukisoftware.org

Copyright (c) 1999, 2006 Tanuki Software, Inc.

Permission is hereby granted, free of charge, to any person
obtaining a copy of the Java Service Wrapper and associated
documentation files (the "Software"), to deal in the Software
without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to
whom the Software is furnished to do so, subject to the
following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Portions of the Software have been derived from source code developed by Silver Egg Technology under the following license:

BEGIN Silver Egg Technology License -----------------------------------

Copyright (c) 2001 Silver Egg Technology

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sub-license, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

END Silver Egg Technology License -----------------------------------
License

<h2 id="summary">Summary and License FAQ</h2>

<p>H2 is dual licensed and available under the MPL 2.0 (<a href="http://www.mozilla.org/MPL/2.0">Mozilla Public License Version 2.0</a>) or under the EPL 1.0 (<a href="http://opensource.org/licenses/eclipse-1.0.php">Eclipse Public License</a>). There is a license FAQ for both the MPL and the EPL.</p>

<ul>
    <li>You can use H2 for free.</li>
    <li>You can integrate it into your applications (including in commercial applications) and distribute it.</li>
    <li>Files containing only your code are not covered by this license (it is 'commercial friendly').</li>
    <li>Modifications to the H2 source code must be published.</li>
    <li>You don't need to provide the source code of H2 if you did not modify anything.</li>
    <li>If you distribute a binary that includes H2, you need to add a disclaimer of liability - see the example below.</li>
</ul>

<p>However, nobody is allowed to rename H2, modify it a little, and sell it as a database engine without telling the customers it is in fact H2. This happened to HSQLDB: a company called 'bungisoft' copied HSQLDB, renamed it to 'RedBase', and tried to sell it, hiding the fact that it was in fact just HSQLDB. It seems 'bungisoft' does not exist any more, but you can use the <a href="http://www.archive.org">Wayback Machine</a> and visit old web pages of <code>http://www.bungisoft.com</code>.</p>

About porting the source code to another language (for example C# or C++): converted source code (even if done
manually) stays under the same copyright and license as the original code. The copyright of the ported source code does not (automatically) go to the person who ported the code.
</p>

<p>If you distribute a binary that includes H2, you need to add the license and a disclaimer of liability (as you should do for your own code). You should add a disclaimer for each open source library you use. For example, add a file `<code>3rdparty_license.txt</code>` in the directory where the jar files are, and list all open source libraries, each one with its license and disclaimer.
For H2, a simple solution is to copy the following text below. You may also include a copy of the complete license.
</p>

<pre>
This software contains unmodified binary redistributions for H2 database engine (http://www.h2database.com/), which is dual licensed and available under the MPL 2.0 (Mozilla Public License) or under the EPL 1.0 (Eclipse Public License). An original copy of the license agreement can be found at: http://www.h2database.com/html/license.html
</pre>

<h2 id="mpl2">Mozilla Public License Version 2.0</h2>

<h3>1. Definitions</h3>

<p>1.1. "Contributor" means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.</p>

<p>1.2. "Contributor Version" means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.</p>

<p>1.3. "Contribution" means Covered Software of a particular Contributor.</p>

<p>1.4. "Covered Software" means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.</p>

<p>1.5. "Incompatible With Secondary Licenses" means</p>

<p>a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or</p>

<p>b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.</p>

<p>1.6. "Executable Form" means any form of the work other than Source Code Form.</p>

<p>1.7. "Larger Work" means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.</p>

<p>1.8. "License" means this document.</p>

<p>1.9. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.</p>

<p>1.10. "Modifications" means any of the following:</p>

<p>a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or</p>

<p>b. any new file in Source Code Form that contains any Covered Software.</p>

<p>1.11. "Patent Claims" of a Contributor means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the
License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License" means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form" means the form of the work preferred for making modifications.

1.14. "You" (or "Your") means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

- under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and
- under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

- for any code that a Contributor has removed from Covered Software; or
- for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or
- under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

### 3. Responsibilities

#### 3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

#### 3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

- All distribution of Covered Software in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and
- You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

#### 3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

#### 3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

#### 3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

### 4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must:

- (a) comply with the terms of this License to the maximum extent possible; and
- (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

### 5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means.
prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.
If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If you choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, you can obtain one at http://mozilla.org/MPL/2.0

If it is not possible or desirable to put the notice in a particular file, then you may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

Eclipse Public License - Version 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative
works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

<h3>2. GRANT OF RIGHTS</h3>

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient’s responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.
A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to
defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY
RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY
OF SUCH DAMAGES.
</p>

<h3>7. GENERAL</h3>
<p>
If any provision of this Agreement is invalid or unenforceable under applicable
law, it shall not affect the validity or enforceability of the remainder of the
terms of this Agreement, and without further action by the parties hereto,
such provision shall be reformed to the minimum extent necessary to make
such provision valid and enforceable.
</p>
<p>If Recipient institutes patent litigation against any entity (including a cross-claim
or counterclaim in a lawsuit) alleging that the Program itself (excluding
combinations of the Program with other software or hardware) infringes such
Recipient's patent(s), then such Recipient's rights granted under Section
2(b) shall terminate as of the date such litigation is filed.
</p>
<p>All Recipient's rights under this Agreement shall terminate if it fails to comply
with any of the material terms or conditions of this Agreement and does
not cure such failure in a reasonable period of time after becoming aware
of such noncompliance. If all Recipient's rights under this Agreement
terminate, Recipient agrees to cease use and distribution of the Program
as soon as reasonably practicable. However, Recipient's obligations under
this Agreement and any licenses granted by Recipient relating to the
Program shall continue and survive.
</p>
<p>Everyone is permitted to copy and distribute copies of this Agreement, but
in order to avoid inconsistency the Agreement is copyrighted and may only
be modified in the following manner. The Agreement Steward reserves the
right to publish new versions (including revisions) of this Agreement from
time to time. No one other than the Agreement Steward has the right to
modify this Agreement. The Eclipse Foundation is the initial Agreement
Steward. The Eclipse Foundation may assign the responsibility to serve as
the Agreement Steward to a suitable separate entity. Each new version of
the Agreement will be given a distinguishing version number. The Program
(including Contributions) may always be distributed subject to the version
of the Agreement under which it was received. In addition, after a new
version of the Agreement is published, Contributor may elect to distribute
the Program (including its Contributions) under the new version. Except as
expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights
or licenses to the intellectual property of any Contributor under this
Agreement, whether expressly, by implication, estoppel or otherwise.
All rights in the Program not expressly granted under this Agreement are
reserved.
</p>
This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

<h2 id="eccn">Export Control Classification Number (ECCN)</h2>

As far as we know, the U.S. Export Control Classification Number (ECCN) for this software is 5D002. However, for legal reasons, we can make no warranty that this information is correct. For details, see also the Apache Software Foundation Export Classifications page.

1.34 Commons Collections 3.2.1

1.34.1 Available under license:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License);
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Apache Commons Collections
Copyright 2001-2008 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

1.35 Commons Digester 1.8.1
1.35.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
   Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
   stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
   that You distribute, all copyright, patent, trademark, and
   attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,
1.36 Commons Logging 1.1.1
1.36.1 Available under license:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "["] replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Commons Logging
Copyright 2003-2007 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).
<!--

Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See the NOTICE file distributed with this work for additional information regarding copyright ownership. The ASF licenses this file to You under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

-->
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.
Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Apache Commons Codec
Copyright 2002-2011 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains
test data from http://aspell.sourceforge.net/test/batch0.tab.

Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org). Verbatim copying
and distribution of this entire article is permitted in any medium,
provided this notice is preserved.

/*
 * Licensed to the Apache Software Foundation (ASF) under one or more
 * contributor license agreements. See the NOTICE file distributed with
 * this work for additional information regarding copyright ownership.
 * The ASF licenses this file to You under the Apache License, Version 2.0
 * (the "License"); you may not use this file except in compliance with
 * the License. You may obtain a copy of the License at
 * 
 *      http://www.apache.org/licenses/LICENSE-2.0
 * 
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
1.38 commons-collections 3.2.2
1.38.1 Available under license:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.
Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache Commons Collections
Copyright 2001-2015 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

1.39 commons-dbcp2 2.5.0

1.39.1 Available under license:

Apache Commons DBCP
Copyright 2001-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.40 commons-lang3 3.5
1.40.1 Available under license:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and
(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License);
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Apache Commons Lang
Copyright 2001-2016 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This product includes software from the Spring Framework,
under the Apache License 2.0 (see: StringUtils.containsWhitespace())

1.41 commons-lang3 3.8
1.41.1 Available under license:
Apache Commons Lang
Copyright 2001-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

   (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.42 commons-validator 1.6
1.42.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.
"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "["] replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Apache Commons Validator
Copyright 2001-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

1.43 crypto 2.0.2
1.43.1 Available under license :
Copyright 2015, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.44 csv-dart 2.0.1
1.44.1 Available under license :
The MIT License (MIT)

Copyright (c) 2014 Christian Loitsch

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.45 dart-lang sdk 1.21.1

1.45.1 Available under license:

Copyright (c) 2010-2014, Michael Bostock
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* The name Michael Bostock may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL MICHAEL BOSTOCK BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without...
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This license applies to all parts of Dart that are not externally maintained libraries. The external maintained libraries used by Dart are:

7-Zip - in third_party/7zip
JSCRE - in runtime/third_party/jscre
Ant - in third_party/apache_ant
args4j - in third_party/args4j
bzip2 - in third_party/bzip2
Commons IO - in third_party/commons-io
Commons Lang in third_party/commons-lang
Eclipse - in third_party/eclipse
gsutil - in third_party/gsutil
Guava - in third_party/guava
hamcrest - in third_party/hamcrest
Httplib2 - in samples/third_party/httplib2
JSON - in third_party/json
JUnit - in third_party/junit
NSS - in third_party/nss and third_party/net_nss
Oauth - in samples/third_party/oauth2client
SQLite - in third_party/sqlite
weberknecht - in third_party/weberknecht
zlib - in third_party/zlib
fest - in third_party/fest
The libraries may have their own licenses; we recommend you read them, as their terms may differ from the terms below.

Copyright 2012, the Dart project authors. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2005, Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2015, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2014, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2016, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This license applies to all files contained here with the following exceptions:

- All code in test/js_test_tools is externally maintained with corresponding licenses in those individual files and directories.

---

Copyright 2015, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2013, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
Copyright 2016, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2012, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* The name Michael Bostock may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL MICHAEL BOSTOCK BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2006-2011, the V8 project authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This license applies to all parts of Dart that are not externally maintained libraries. The external maintained libraries used by Dart are:

7-Zip - in third_party/7zip
JScre - in runtime/third_party/jscre
Ant - in third_party/apache_ant
args4j - in third_party/args4j
bzip2 - in third_party/bzip2
Commons IO - in third_party/commons-io
Commons Lang in third_party/commons-lang
Eclipse - in third_party/eclipse
gsutil - in third_party/gsutil
Guava - in third_party/guava
hamcrest - in third_party/hamcrest
Httplib2 - in samples/third_party/httplib2
JSON - in third_party/json
JUnit - in third_party/junit
NSS - in third_party/nss and third_party/net_nss
Oauth - in samples/third_party/oauth2client
SQLite - in third_party/sqlite
weberknecht - in third_party/weberknecht
zlib - in third_party/zlib
fest - in third_party/fest
mockito - in third_party/mockito

The libraries may have their own licenses; we recommend you read them, as their terms may differ from the terms below.

Copyright 2012, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.46 dart-lzma 0.3.0
1.46.1 Available under license :
Copyright (c) 2012 Juan Mellado

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
LZMA SDK is placed in the public domain by Igor Pavlov.

1.47 dart-xml 2.4.3
1.47.1 Available under license :
The MIT License

Copyright (c) 2006-2016 Lukas Renggli.
All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.48 dartdap 0.2.2

1.48.1 Available under license:

http://opensource.org/licenses/BSD-3-Clause

Copyright (c) 2013, Warren Strange
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
1.49 dateformat 3.0.2

1.49.1 Available under license:

(c) 2007-2009 Steven Levithan <stevenlevithan.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.50 deprecated-decorator 0.1.6

1.51 dglux5 5.0 :1321

1.51.1 Available under license:

<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>request_license</title>
<link href='https://fonts.googleapis.com/css?family=Open+Sans:400,300,600' rel='stylesheet' type='text/css'>
</head>
<style>
body { background-color: #5a5c62;
  font-family: 'Open Sans', sans-serif;
}
Open Source Used In Edge and Fog Processing Module 1.6.0
Open Source Used In Edge and Fog Processing Module 1.6.0

123
Open Source Used in Edge and Fog Processing Module 1.6.0
DGLux End User License Agreement<br>
<br>(Agreement) is entered into as of the date the I Agree button is clicked<br>(Effective Date) between DGLogik, Inc. (DGLogik), as licensor, and(you or Licensee) as licensee.<br>
<br>A. DGLogik has developed a standardized architecture and related software for visualization(the "DGLux Framework") and related documentation available in printed,electronic and/or online form (Documentation).<br>
<br>B. DGLogik is willing to provide a limited end user license to the DGLux Framework and Documentation upon the terms and conditions set forth herein.<br>
<br>1. LICENSE GRANTS AND RESTRICTIONS.<br>

1.1 DGLux Framework. Subject to the terms and conditions contained herein, the Licensor hereby grants you a non-transferable, non-exclusive, limited license (License) to install, use and execute the DGLux Framework, on a single server, which is identified by a discrete HostID number or other means during the installation process (the "Designated System"), and to use the Documentation in connection therewith, solely for your internal business use. During the installation/implementation process, you will receive (via email or by other means specified by the Licensor) license file to be installed on one server in the Designated System, which files are required for the DGLux
Framework to operate. In the event that operation of the DGLux Framework is desired on more than one server in the Designated System, you will be provided with license files to be installed on each additional required server within the Designated System. Upon representation by you to the Licensor that the Designated System is either inoperative or unavailable due to regularly scheduled maintenance issuance, you may transfer the DGLux Framework to a backup computer system you own or lease (Backup System) and use it thereon, and the Licensor will provide you with the necessary files to effect such transfer. Upon restoration of the Designated System to proper functionality, use of the DGLux Framework on the Backup System must cease and the DGLux Framework must be completely removed from the Backup System unless the Licensor provides written consent permitting continued installation on the Backup System.<br>

1.2 Limited Sublicense Rights. You will be permitted to set up sub-user accounts within the DGLux Framework pursuant to which you may allow third party tenants and other sub-users access to certain data available within the DGLux Framework. You may allow sub-users to access only information that is directly relevant to such sub-user and not to specific information related to other persons (such as, for example, detailed data directly related to individual suites occupied by unrelated tenants within a building monitored by the DGLux Framework). Each database screen made available for access to a sub-user is referred to herein as a Saved Dashboard. You may charge sub-users reasonable fees for access to Saved Dashboards. No sublicense rights other than as expressly stated above are permitted hereunder.<br>

1.3 No Other Rights Granted. Apart from the License and the rights expressly granted in Sections 1.1 and 1.2 above, no license or other right is granted by DGLogik to you under this Agreement, either directly or by implication, estoppel, or otherwise (including, but not limited to, the right to prepare derivative works). You shall have no right or access to the source code of the DGLux Framework other than the source code, if any, for certain application program interfaces that are included with the DGLux Framework. If any source code is included with the DGLux Framework, it is provided solely as a reference, is provided subject to all of the limitations of Section 2 below, and may not be modified by you in any way. You shall have no right to use the DGLux Framework to operate or control any system, or component of any system, of any third party.<br>

2. YOUR RESPONSIBILITIES.<br>

YOU SHALL NOT MODIFY, DECOMPILE, DISASSEMBLE, DECRYPT, EXTRACT, OR OTHERWISE REVERSE ENGINEER THE DGLUX FRAMEWORK OR ANY PART THEREOF, OR ANY APPLICATION ENABLER, OR GRANT ANY OTHER PERSON OR ENTITY THE RIGHT TO DO SO OR TAKE ANY ACTION THAT WOULD ASSIST ANY OTHER PERSON OR ENTITY IN DOING SO. YOU WILL PROMPTLY NOTIFY THE LICENSOR OF ANY ATTEMPT BY ANY OTHER PERSON OR ENTITY TO COPY, REVERSE ENGINEER, DISASSEMBLE, DECOMPILE, TRANSLATE OR MODIFY THE DGLUX FRAMEWORK OR DOCUMENTATION. WITHOUT LIMITING THE FOREGOING, YOU SHALL NOT (I) INSERT, DELETE, REPLACE, CHANGE OR OTHERWISE ALTER ANY FILES IN THE DGLUX FRAMEWORK OR APPLICATION ENABLERS; (II) MODIFY, CHANGE, PREPARE DERIVATIVE WORKS OF OR OTHERWISE ALTER ANY BINARY CODE FILES INCLUDED WITH THE DGLUX FRAMEWORK; (III) LOAN, RENT, LEASE, GIVE, SUBLICENSE, TRANSFER, PUBLISH, DISCLOSE, DISPLAY, OR OTHERWISE MAKE AVAILABLE THE DGLUX FRAMEWORK OR DOCUMENTATION, IN WHOLE OR IN PART, TO ANY OTHER PERSON OR ENTITY; (IV) MODIFY ANY APPLICATION PROGRAMMING INTERFACE, INCLUDING MODIFYING ANY APPLICATION PROGRAMMING INTERFACE BY CREATING ADDITIONAL CLASSES WITHIN ANY INTERFACE OR OTHERWISE CAUSING THE ADDITION TO OR MODIFICATION OF THE CLASSES IN AN INTERFACE, AND (V) INCORPORATE ANY CODE INCLUDED WITH THE DGLUX FRAMEWORK OR ANY DOCUMENTATION IN ANY DEVELOPER PRODUCT. YOU SHALL USE ALL COMMERCIALLY REASONABLE EFFORTS TO ENSURE THAT YOUR
EMPLOYEES COMPLY WITH THE TERMS OF THIS AGREEMENT.<br>

3. TECHNICAL SUPPORT. The Licensor shall have no obligation of any kind to provide technical support with respect to the DGLux Framework except as provided in a separate support agreement between you and the Licensor.<br>

4. LICENSE FEES; PAYMENT.<br>

4.1 Fees. The License Fees paid by or for you to the Licensor is paid in consideration of the licenses granted under this Agreement.<br>

4.2 Payment. One hundred percent (100%) of the applicable License Fees are due and payable upon installation of the DGLux Framework on the Designated System. The Licensor shall provide an invoice for each amount due for your records, but no invoice date shall alter the payment due dates specified above. Fees payable under this Agreement are not subject to reduction or set off for any costs, expenses or liabilities incurred by you. Failure to timely pay License Fees may result in termination of the License in accordance with Section 9 below, or in the discretion of the Licensor, imposition of a finance charge equal to three percent (3%) of the past due payment.<br>

4.3 Taxes. You shall pay any and all sales, use, excise, or other taxes (except taxes imposed on the Licensor's income) levied or imposed by any governmental entity or agency on or on account of the provision of the License hereunder. In the event that the Licensor is required to pay any of such taxes, you agree to promptly reimburse the Licensor for such taxes in the amount paid by the Licensor upon receipt of documentation evidencing the requirement and payment.<br>

5. OWNERSHIP AND CONFIDENTIALITY.<br>

5.1 Ownership by Licensor. As between you and the Licensor, the Licensor retains all right, title and interest, in and to the DGLux Framework, the Documentation, and any portion of either. You shall not have any right, title, or interest to the DGLux Framework or Documentation except as expressly provided in this Agreement, and further shall secure and protect the DGLux Framework and Documentation as set forth herein consistent with maintenance of the Licensor's proprietary rights therein. You agree that you shall not contest or challenge, or take any action inconsistent with or that may damage or impair (i) the Licensor's ownership or rights in the DGLux Framework and Documentation, or (ii) the rights of any third party that has licensed intellectual property rights to the Licensor for use in connection with the DGLux Framework. You shall use the DGLux Framework and Documentation only as expressly authorized in this Agreement.<br>

5.2 Confidentiality. You acknowledge that the DGLux Framework and Documentation contain valuable trade secrets of the Licensor and you agree to maintain the confidentiality of the DGLux Framework and Documentation using at least a commercially reasonable standard of care for confidential information but not less than the same degree of care you use with your own confidential information.<br>

6. WARRANTIES AND LIMITATIONS.<br>

6.1 Disclaimer of Software Warranty. THE LICENSE OF THE DGLUX FRAMEWORK AND DOCUMENTATION IS MADE "AS IS," WITH NO EXPRESS OR IMPLIED WARRANTY OF ANY KIND. DGLOGIK SPECIFICALLY DISCLAIMS ALL INDIRECT OR IMPLIED WARRANTIES TO THE FULL
EXTENT ALLOWED BY APPLICABLE LAW, INCLUDING WITHOUT LIMITATION ALL IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY, TITLE, OR FITNESS FOR ANY PARTICULAR PURPOSE. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY DGLOGIK, AND THE RESPECTIVE AGENTS OR EMPLOYEES, SHALL CREATE A WARRANTY.<br>

6.2 Limitation of Liability. NEITHER THE LICENSOR NOR ANY OF THE RESPECTIVE OFFICERS, EMPLOYEES, AGENTS, REPRESENTATIVES OF THE LICENSOR SHALL BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES OR PENALTIES (INCLUDING DAMAGES FOR LOST PROFITS, LOST BUSINESS, PERSONAL INJURY, LOST DATA, BUSINESS INTERRUPTION, AND THE LIKE), HOWEVER ANY SUCH LOSS ARISES, WHETHER FOR BREACH OR IN TORT, EVEN IF THE LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.<br>

There can be no assurances whatsoever that data visualization systems such as the DGLux Framework will protect any individual or his or her property from harm. Appropriate safety precautions must always be taken when operating or maintaining equipment connected to the DGLux Framework. Without limiting anything else set forth in this Section 6, (i) the Licensor assumes no responsibility or liability for any injury or damage to any persons or property resulting from the use of the DGLux Framework, and (ii) the Licensor expressly disclaims any express or implied warranty or condition of fitness for High-Risk Applications (as defined in Section 7 below).<br>

6.3 Limitation of Remedies. IN NO EVENT SHALL LICENSORS MONETARY LIABILITY TO YOU FOR CLAIMS ARISING UNDER THIS AGREEMENT EXCEED THE AMOUNTS PAID BY YOU TO THE LICENSOR FOR THE LICENSE PROVIDED IN SECTION 1.1 ABOVE. THE EXISTENCE OF ONE OR MORE CLAIMS WILL NOT ENLARGE THIS LIMIT.<br>

7. ASSURANCES BY YOU.<br>
You represent and warrant to the Licensor that you will take appropriate precautions, establish appropriate procedures, and post appropriate notices to ensure that persons and property are not harmed in the event of an error, malfunction or unexpected operation of the DGLux Framework. Unless the Licensor has provided the express written consent in every instance, you will use your best efforts to ensure that no component of the DGLux Framework is used in any application in which the failure of the DGLux Framework could lead to death, personal injury or severe physical or property damage, including, without limitation, environmental damage (collectively, "High-Risk Applications"), including but not limited to the operation of nuclear facilities, mass transit systems, aircraft navigation or aircraft communication systems, air traffic control, weapon systems, and direct life support machines. Further, by executing this agreement, you represent and warrant that all consents, approval or authorizations of third parties, foreign ministries, or any governmental entities or agencies required as a condition or otherwise necessary for you to enter into and perform its obligations under this Agreement have been duly obtained.<br>

8. INDEMNIFICATION. You shall indemnify and hold harmless the Licensor from and against all losses, claims, damages or other causes of any nature or kind whatsoever (including reasonable attorney's fees) arising directly or indirectly out of third party claims concerning (i) a breach of any of your obligations, covenants, representations or warranties contained herein; (ii) your selection of, or transactions or agreements with, any party that is an authorized DGLogik reseller or distributor, systems integrator, or trainer, or any other third party; (iii) any product developed by you using the DGLux Framework or Documentation; (iv) any combination of the DGLux Framework, or any component of it, with any product developed by you using the DGLux Framework or Documentation or with any other product, equipment, device, software, system or data not supplied by the Licensor, and (v) the negligence or intentional misconduct of you or your officers, employees, agents or contractors. You agree not to interpose any
cross-claim, third party claim, or similar claim against DGLogik based on a claim, suit, action, or proceeding threatened or commenced against you related to the DGLux Framework or Documentation and arising out of any matter other than a matter, if any, for which the Licensor has agreed to indemnify you under a separate agreement signed by DGLogik.<br>

9. TERM AND TERMINATION. This Agreement is effective as of the Effective Date and shall continue until terminated. You may terminate this Agreement at any time upon written notice and the return of the DGLux Framework, Documentation and all copies and extracts of either to the Licensor. The Licensor may terminate this Agreement upon your material or continuing breach of this Agreement by giving you ten (10) days prior written notice stating the cause of termination, with such termination becoming effective at the close of said 10-day term if the breach is not then cured to the satisfaction of the Licensor. If cure is effected and accepted, the Licensor will provide you with written notice of reinstatement. In the event any foreign ministry or other governmental entity or agency makes any changes, deletions or modifications to this Agreement, holds any provision herein unenforceable, or imposes any conditions or restrictions on either party to this Agreement which affects its ability to fully perform, the Licensor shall have the right to immediately terminate this Agreement.<br>

10. TRADEMARKS. Under no circumstances may you use the DGLux trademark or any other trademark or service mark of DGLogik to identify goods or services provided by you, or for any other reason, except with the express written consent of DGLogik. You shall not remove, deface or change any Licensor trademark or service mark or any notices or designations related thereto.<br>

11. GENERAL TERMS.<br>

11.1 Assignment. You may assign this Agreement or your rights and obligations under this Agreement to a purchaser of the hardware on which the software is installed, provided (i) you provide the purchaser with a copy of this Agreement and (ii) the purchaser agrees in writing to comply with all of the terms and conditions of this Agreement. The Licensor may assign this Agreement without your consent.<br>

11.2 Export. Software, including technical data, is subject to U.S. export control laws, including the U.S. Export Administration Act and its associated regulations, and may be subject to export or import regulations in other countries. You agree to comply strictly with all such regulations and acknowledge that you have the responsibility to obtain the necessary licenses to export, re-export, or import the DGLux Framework or Documentation. The DGLux Framework and Documentation may not be used, sold, resold, sublicensed, diverted, transferred, reshipped, or otherwise exported or re-exported: (i) in, into or through any country designated as a terrorist supporting country by the U.S. government or any of its agencies; (ii) in, into or through any country for which the U.S. has an embargo or with which the U.S. or any of its agencies maintains comprehensive trade controls; (iii) to or by a national or resident of the countries described in (i) or (ii); or (iv) to or by any party included in the United States Department of Commerce's Denied Persons List, Entity List or Unverified List; or the United States Department of the Treasury's Specially Designated Nationals, Specially Designated Global Terrorists, Specially Designated Narcotics Traffickers, Specially Designated Narcotic Traffickers, or Specially Designated Terrorists List; or the United States Department of State's Designated Foreign Terrorist Organizations or Debarred Persons List; or is otherwise designated by the U.S. government or any of its agencies as a party with which it is unlawful to do business.<br>

11.3 Equitable Relief. You acknowledge that any breach of your obligations hereunder with respect to the DGLux Framework, the Documentation, or the confidential information of the Licensor, including Section 5.1 and 5.2 above, will cause the Licensor irreparable injury for which it has no adequate remedy at law. You further agree that the Licensor will be entitled to seek equitable relief, including preliminary injunctions and temporary restraining
orders, to prevent any unauthorized use of the DGLux Framework, Documentation, or other confidential information of the Licensor, without posting of bond or other security, in addition to all other remedies available to it under this Agreement or other applicable law.<br>

11.4 Entire Agreement. This Agreement comprises the entire agreement between the parties relating to its subject matter. All Schedules and Exhibits to this Agreement, whether presently contemplated or executed in the future, are integral parts of this Agreement and are incorporated herein by reference. This Agreement supersedes all prior agreements and understandings, written or oral, express or implied. This Agreement can be amended or modified only by a writing executed in advance by duly authorized representatives of each of the parties hereto. Each party agrees that it has negotiated and reviewed this Agreement and that any rule of construction or interpretation requiring resolution of any ambiguities in this Agreement against the drafting party shall not apply in the construction or interpretation of this Agreement. Use of the term including in this Agreement or any schedule or exhibit hereto shall be deemed to mean including but not limited to. The headings in this Agreement are for convenience only and shall have no effect on its interpretation. This Agreement may be executed in counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same Agreement. This Agreement shall be enforceable upon your acceptance by clicking the I Agree button.<br>

11.5 Waiver. No waiver by either party of any of the rights pursuant to this Agreement shall be effective unless set forth in a writing delivered to the other party. No course of dealing, delay in exercising any right, power, or remedy, acceptance of payments, late charges, or performance from a party when that party is in default, or enforcement of any remedy shall operate as a waiver or otherwise prejudice a party's rights, powers, or remedies pursuant to this Agreement. All rights and remedies of the parties pursuant to this Agreement shall be cumulative and none shall exclude any other right or remedy given by this Agreement or by law.<br>

11.6 Governing Law; Choice of Venue. The validity of this Agreement and the rights, obligations and relations of the parties hereunder shall be construed and determined under and in accordance with the substantive laws of the State of California with respect to claims governed by state law and the laws of the United States with respect to claims arising under the laws of the United States, without regard to conflicts of laws principles and excluding the Convention on Contracts for the International Sale of Goods. Any action arising from or relating to this Agreement or the conduct of the parties pursuant hereto shall be commenced and heard solely within the federal and state courts in San Francisco, California. The parties hereby consent to the service of process in any such action by registered mail, return receipt requested, or by any other means provided by law.<br>

11.7 Severability. Subject to the Licensor's rights under Section 9 above, should any term or provision of this Agreement be finally determined by a court of competent jurisdiction to be void, invalid, unenforceable or contrary to law or equity, the offending term shall be modified and limited (or if strictly necessary, deleted) only to the extent required to conform to the requirements of law and the remainder of this Agreement (or, as the case may be, the application of such provisions to other circumstances) shall not be affected thereby but rather shall be enforced to the greatest extent permitted by law.<br>

11.8 Survival. Any provision of this Agreement which contemplates performance subsequent to the expiration or earlier termination of this Agreement, or which expressly states that it shall survive termination of the Agreement, shall so survive such expiration or termination and shall continue in full force and effect until fully satisfied.<br>

11.9 Government Use. The DGLux Framework is provided with restricted rights. With respect to any acquisition of the DGLux Framework by or for any unit or agency of the U.S. Government ("Government"), the DGLux Framework shall be classified as "Commercial Computer Software," as that term is defined in the applicable provisions of the Federal Acquisition Regulation ("FAR") and supplements thereto, including the Department of
Defense (DoD) FAR Supplement ("DFARS"). If the DGLux Framework is supplied for use by DoD, the DGLux Framework is delivered subject to the terms of this Agreement and either (i) in accordance with DFARS 252.227-7202-1(a) and 227.7202-3(a), or (ii) with restricted rights in accordance with DFARS 252.227 7013(c)(1)(ii), as applicable. If the DGLux Framework is supplied for use by a federal agency other than DoD, the DGLux Framework is restricted computer software delivered subject to the terms of this Agreement and (i) FAR 52.227-19; or (ii) FAR 52.227-14 (ALT III), as applicable.<br>

DGLogik has caused this Agreement to be executed as of the date the I agree button is clicked. <br>

```
The MIT License (MIT)

Copyright (c) 2014

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```
var G = map();
var H = map();
var J = map();
var K = map();
var L = map();
var M = map();
var N = map();
var O = map();
var P = map();
var Q = map();
var R = map();
var S = map();
var T = map();
var U = map();
var V = map();
var W = map();
var X = map();
var Y = map();
var Z = map();

function I() { init();
  function setupProgram(a, b) {
    "use strict"
    function generateAccessor(a9, b0, b1) {
      var g = a9.split("-\")
      var e = g.length
      var d = g.charCodeAt(e - 1)
      var c
      if (g.length > 1) c = true
      else c = false
      if (d) {
        var a0 = d & 3
        var a1 = d >> 2
        var a2 = g.substring(0, e - 1)
        var a3 = g.indexOf(":")
        if (a3 > 0) a2 = g.substring(0, a3)
        if (a3 > 0) a2 = g.substring(0, a3)
        var a4 = a0 & 2 ? "r" : "\"
        var a5 = a0 & 1 ? "this": "r"
        var a6 = "return " + a5 + "." + f
        var a7 = b1 + ".prototype.g" + a2 + "="
        var a8 = "function(" + a4 + "){" + a6 + "\n"
        if (c) b0.push(a7 + "$reflectable(" + a8 + ");\n")
        else b0.push(a7 + a8 + ";\n\")
        if (a1) {
          var a4 = a1 & 2 ? "r, v": "v"
          var a5 = a1 & 1 ? "this": "r"
          var a6 = a5 + "+f+=" + v
          var a7 = b1 + ".prototype.s" + a2 + "="
          var a8 = "function(" + a4 + "){" + a6 + "\n"
          if (c) b0.push(a7 + "$reflectable(" + a8 + ");\n")
          else b0.push(a7 + a8 + ";\n\")
        } return f}
    } function defineClass(a2, a3) {
      var g = [
        var f = "function" + a2 + "("}
var e=
var d=
for(var c=0;c<a3.length;c++){
if(c!=0)f+=" , ",
var a0=generateAccessor(a3[c],g,a2)
d+="'+a0+' , ",
var a1="p_"+a0
f+=a1
e+="this.+a0+" = "+a1+";\n" if(supportsDirectProtoAccess) e+="this.+" +$deferredAction" +"();
if(e+=") {\n" +e+" }\n"
f+=a2+" . builtin$cls=" +a2+" ;\n"
f+="$desc=$collectedClasses." +a2+"[1];\n"
f+=a2+" . prototype = $desc;\n"
if(typeof defineClass.name!="string") f+=a2+" . name=" +a2+";\n"
f+=a2+" . " +$__fields__ +" = [" +d+" ];\n"
f+="g .join(" , ")}
return f}
init.createNewIsolate=function() {return new I()}
init.classIdExtractor=function(c) {return c.constructor.name}
init.classFieldsExtractor=function(c) {var g=c.constructor.$__fields__
if(!g) return []
var f=[]
f.length=g.length
for(var e=0;e<g.length;e++) f[e]=c[g[e]]
return f}
init.instanceFromClassId=function(c) {return new init.allClasses[c]().apply(d,e)
return d}
var z=supportsDirectProtoAccess?function(c,d){var g=c.prototype
g["$is"+c.name]=c
return convertToFastObject(g)}:function(){function tmp(){
var g=new tmp()
return function(a0,a1){tmp.prototype=a1.prototype
var g=new tmp()
convertToSlowObject(g)
var f=a0.prototype
var e=Object.keys(f)
for(var d=0;d<e.length;d++){
var c=e[d] g[c]=f[c] g["$is"+a0.name]=a0
g.constructor=a0
a0.prototype=g
return g}
}
function finishClasses(a4){var g=init.allClasses
a4.combinedConstructorFunction="return [\n" +a4.constructorsList.join(" , ") +"\n"]"
var f=new Function("$collectedClasses",a4.combinedConstructorFunction)(a4.collected)
a4.combinedConstructorFunction=null
for(var e=0;e<f.length;e++) {
var d=f[e]
var c=d.name
var a0=a4.collected[c]
var a1=a0[0]"
function finishAddStubsHelper()
var g = this
while (!g.hasOwnProperty("$deferredAction")) g = g.__proto__
delete g.$deferredAction
var f = Object.keys(g)
for (var e = 0; e < f.length; e++)
  var d = f[e]
var c = d.charCodeAt(0)
if (c !== 43 && c !== 42) {
  var a0 = null
  var a1 = g[d]
  if (a1) {
    a1 = a1[d]
    if (a1) {
      var a2 = init.finishedClasses
      function finishClass(c1)
        if (a2[c1]) return
        a2[c1] = true
        var a3 = a4.pending[c1]
        if (a3 && a3.indexOf("+") > 0)
          var a4 = a3.split("+");
        var a5 = g[c];
        var a6 = a5[d]
        var a7 = a6[d]
        var a8 = g[a7]
        var a9 = a8.prototype
        var b0 = g[c1].prototype
        var b1 = Object.keys(a9)
        for (var b2 = 0; b2 < b1.length; b2++)
          var b3 = b1[b2]
        if (u.call(b0, b3)) b0[b3] = a9[b3]
        if (a5) typeof a5 !== "string")
          var a6 = g[c1]
        var b5 = b4.prototype
        b5.constructor = b4
        b5.$isd = b4
        b5.$deferredAction = function() {}
        return;
      finishClass(a5)
      var b6 = g[a5]
      if (!b6) b6 = existingIsolateProperties[a5]
      var b4 = g[c1]
      var b5 = z(b4, b6)
      if (a9) b5.$deferredAction = mixinDeferredActionHelper(a9, b5)
      if (Object.prototype.hasOwnProperty.call(b5, "%"))
        var b7 = b5["%"].split(";");
      if (b7[0])
        var b8 = b7[0].split(";")
      for (var b2 = 0; b2 < b8.length; b2++)
        init.interceptorsByTag[b8[b2]] = b4
      init.leafTags[b8[b2]] = true
      if (b7[1])
        var b9 = b7[1].split(";")
      if (b7[2])
        var b9 = b7[2].split(";")
      for (var b2 = 0; b2 < b9.length; b2++)
        var c0 = g[b9[b2]]
      c0.$nativeSuperclassTag = b8[0][])
    } else {
      b5.$deferredAction = function(b5, a5, c1)
      return ;
    }
    for (var e = 0; e < a3.length; e++)
      finishClass(a3[e]);
    function finishAddStubsHelper() (var g = this
    while (!g.hasOwnProperty("$deferredAction"))
      g = g.__proto__
    delete g.$deferredAction
    var f = Object.keys(g)
    for (var e = 0; e < f.length; e++)
      var d = f[e]
    var c = d.charCodeAt(0)
    if (d !== "^" && d !== "$reflectable" && c !== 43 && c !== 42 &&
      (a0 = g[d]) !== null)
      a0.constructor = Array
      & d !== "<>"
    )
    addStubs(g, a0, d, false, []);
    convertToFastObject(g)
    g = g.__proto__
    g.$deferredAction();
    function mixinDeferredActionHelper(c, d) (var g
    if (d.hasOwnProperty("$deferredAction"))
      g = d.$deferredAction
    return function foo() (var f = this

Open Source Used In Edge and Fog Processing Module 1.6.0
while(!f.hasOwnProperty("$deferredAction"))f=f.__proto__
if(g)f.$deferredAction=g
else{delete f.$deferredAction
convertToObject(f)\x3etc.$deferredAction()
f.$deferredAction()}}

function processClassData(b1,b2,b3)
{b2=convertToSlowObject(b2)
var g
var e=false
var d=supportsDirectProtoAccess&&b1!="d"
for(var c=0;c<f.length;c++)
{var a0=f[c]
var a1=a0.charCodeAt(0)
if(a0!="C")
processStatics(init.statics[b1]=b2.C,b3)
delete b2.C}
else if(a1===43){w[g]=a0.substring(1)
var a2=b2[a0]
if(a2>0)b2[g].$reflectable=a2}
else if(a1===42){b2[g].$defaultValues=b2[a0]
var a3=b2.$methodsWithOptionalArguments
if(!a3)b2.$methodsWithOptionalArguments=a3=[]
a3[a0]=g}
else{var a4=b2[a0]
if(a0!="^"&&a4!="null&&a4.constructor===Array&&a0!="<>")if(d)e=true
else addStubs(b2,a4,a0,false,[])
else g=a0}
var a5=b2["^"],a6,a7,a8=a5
var a9=a8.split(;
"")
a8=a9[1]?a9[1].split(",;)
:a7=a9[0]
a6=a7.split(;
"")
if(a6.length==2){a7=a6[0]
var b0=a6[1]
if(b0)b2.$signature=function(b4){return function(){return init.types[b4]}}(b0)
}if(a7)b3.pending[b1]=a7
b3.combinedConstructorFunction+=defineClass(b1,a8)
b3.constructorsList.push(b1)
b3.collected[b1]=[m,b2]
i.push(b1)
}
function processStatics(a3,a4)
{var g=Object.keys(a3)
for(var f=0;f<g.length;f++)
{var e=g[f]
if(e==="^")continue
var d=a3[e]
var c=e.charCodeAt(0)
var a0
if(c===43){v[a0]=e.substring(1)
var a1=a3[e]
if(a1>0)a3[a0].$reflectable=a1
if(d&&d.length)init.typeInformation[a0]=d}
else if(c===42){m[a0].$defaultValues=d
var a2=a3.$methodsWithOptionalArguments
if(!a2)a3.$methodsWithOptionalArguments=a2=[]
a2[e]=a0}
else if(typeof d==="function")
{m[a0=e]=d
h.push(e)
init.globalFunctions[e]=d}
else if(d.constructor===Array)addStubs(m,d,e,true,h)
else{a0=e}
Open Source Used In Edge and Fog Processing Module 1.6.0

140

```javascript
function addStubs(b2, b3, b4, b5, b6) {
    var g = 0, f = b3[0], e;
    for (g = 0; g < b3.length; g++) {
        e = b3[g];
        if (typeof e == "string") e = b3[++g];
        var d = e.$stubName = b4;
        b6.push(b4);
        for (g++; g < b3.length; g++) {
            e = b3[g];
            if (typeof e != "function") break;
            if (!b5) e.$stubName = b3[++g];
            d.push(e);
            if (e.$stubName) b2[e.$stubName] = e;
            b6.push(e.$stubName);
        }
        for (var c = 0; c < d.length; c++)
            d[c].$callName = b3[g];
    }
}
```

```javascript
var a0 = b3[0];
var a1 = b3[0] >> 1;
var a2 = a1 >> 1;
var a3 = (a1 & 1) === 1;
var a4 = a1 === 3;
var a5 = a1 === 1;
var a6 = b3[1];
var a7 = a6 >> 1;
var a8 = a6 & 1 === 1;
var a9 = a2 + a7 + d[0].length;
var b0 = b3[2];
if (typeof b0 == "number") b3[2] = b0 + b1;
var b1 = 2 * a7 + a2 + 3;
if (a0) e = tearOff(d, b3, b5, b4, a9);
    b2[b4].$getter = e;
    e.$getterStub = true;
    if (b5) init.globalFunctions[b4] = e;
    b6.push(a0);
    e.$stubName = a0;
    e.$callName = null;
}
```

```javascript
function tearOffGetter(c, d, e, f) {
    return f ? new Function("funcs", "reflectionInfo", "name", "H", "c", "return function tearOff_" + e + y++, "(x) {" + "if (c === null) c = " + "H.IM" + "(" + "this, funcs, reflectionInfo, false, [x], name);" + "return new c(this, funcs[0], x, name);" + "})(c, d, e, H, null): new Function("funcs", "reflectionInfo", "name", "H", "c", "return function tearOff_" + e + y++, "() {" + "if (c === null) c = " + "H.IM" + "(" + "this, funcs, reflectionInfo, false, [], name);" + "return new c(this, funcs[0], null, name);" + "})(c, d, e, H, null): function tearOff(c, d, e, f, a0) { var g
    return e$function() { if (true == void 0) g = H.IM(this, c, d, true, [], f).prototype;
        return g; } });
```

```javascript
function tearOff(c, d, e, f, a0) {
    return e ? function () {
        if (g === void 0) g = H.IM(this, c, d, true, [], f).prototype;
        return g;
    }: tearOffGetter(c, d, e, f, a0); var y = 0;
    if (!init.libraries) init.libraries = [];
    if (!init.mangledNames) init.mangledNames = map();
    if (!init.mangledGlobalNames) init.mangledGlobalNames = map();
    if (!init.typeInformation) init.typeInformation = map();
    if (!init.globalFunctions) init.globalFunctions = map();
    var x = init.libraries;
```
var w=init.mangledNames
var v=init.mangledGlobalNames
var u=Object.prototype.hasOwnProperty
var t=a.length
var s=map()
s.collected=map()
s.pending=map()
s.constructorsList=[]
s.combinedConstructorFunction="function $reflectable(fn){fn.$reflectable=1;return fn};\n"+"var $desc;\n"
for(var r=0;r<t;r++){var q=a[r]
var p=q[0]
var o=q[1]
var n=q[2]
var m=q[3]
var l=q[4]
var k=!q[5]
var j=l&l["\^"\]
if(j instanceof Array)j=j[0]
var i=[]
var h=[]
processStatics(l,s)
x.push([p,i,h,n,j,m])}finishClasses(s)
I.aY=function(){
var dart=["","","","","","",H,{},"^",H,typeof a="function"?H.rb(a):null,]}
signature: function() { return { func: 1, opt: [null, null] } },
cU: "^^": "!",

eb: function(a, b) { if (!a.immutable$list) throw H.b(new P.w(b)) },
bG: function(a, b) { if (!a.fixed$length) throw H.b(new P.w(b)) },
K: function(a, b) { this.bG(a,"add")
a.push(b)},
bk: function(a, b, c) { var z, y, x
this.eb(a,"setAll")
P.iK(b, 0, a.length,"index", null)
for(z=a.length,y=0;y<c.length;c.length===z?(0,H.an(c),++y,b=x){x=b+1
this.k(a,b,c[y])}},
b3: function(a) { this.bG(a,"removeLast")
if(a.length===0) throw H.b(H.ak(a,-1))
return a.pop()},
Y: function(a, b) { var z
this.bG(a,"remove")
for(z=0;z<a.length;++z)if(J.n(a[z],b)) { a.splice(z,1)
return!0} return!1 },
aF: function(a, b) { var z
this.bG(a,"addAll")
for(z=J.aQ(b);z.w();a.push(z.gF())),
ag: function(a) { this.si(a,0) },
O: function(a, b) { var z, y
z=a.length
for(y=0;y<z;++y)if(b.$1(a[y])
if(a.length!==z) throw H.b(new P.al(a)) },
be: function(a, b) { return H.f(new H.f6(a,b),[null,null]) },
bP: function(a, b) { var z, y, x, w
z=a.length
y=new Array(z)
y.fixed$length=Array
for(x=0;x<a.length;++x) { w=H.k(a[x])
if(x>=z)return H.a(y,x)
y[x]=w} return y.join(b),
ax: function(a, b) { return H.dX(a, b, null, H.j(a,0)) },
N: function(a, b) { if(b>>>0!==b||b>=a.length) return H.a(a, b)
return a[b] },
U: function(a, b, c) { if(b<0||b>a.length) throw H.b(P.S(b,0, a.length,"start",null))
if(c===null)c=a.length
else if(typeof c!="number"||Math.floor(c)===c) throw H.b(H.X(c))
if(c<b||c>a.length) throw H.b(P.S(c,b,a.length,"end",null)) if(b===c) return H.f([], [H.j(a,0)]),
as: function(a, b) { if(a.length>0) return a[0]
throw H.b([H.b2()]),
gkS: function(a) { if(a.length>0) return a[0]
throw H.b(H.b2()) },
gM: function(a) { var z=a.length
if(z>0) return a[z-1]
throw H.b([H.b2()]) },
function(a,b,c,d,e){ var z,y,x,w,v,u,t
this.eb(a,"set range")
function(b,c,a.length,null,null,null)
z=J.G(c,b)
y=J.t(z)
if(y.q(z,0))return
x=J.o(e)
if(x.u(e,0))H.x(P.S(e,0,null,"skipCount",null))
if(J.T(x,j(e,z),d.length))throw H.b(H.i9())
if(x.u(e,b))for(w=v.m(z,1),y=J.o(w),v=J.w(w,0);w=v.m(w,1);u=x.j(e,w)
t=d[u]
a[y.j(b,w)]=t}else{if(typeof z!="number")return H.i(z)
y=J.am(b)
w=0
for(;w<z;++w){v=x.j(e,w)
if(v>v>>0!==v||v>=d.length)return H.a(d,v)
t=d[v]
a[y.j(b,w)]=t}}}
function(a,b,c,d){ return this.P(a,b,c,d,0)},
function(a,b,c,d){ var z
this.eb(a,"fill range")
function(b,c,a.length,null,null,null)
for(z=b;z<c;++z)a[z]=d},
function(a,b,c,d){ var z,y,x,w,v,u,t
this.bG(a,"replace range")
function(b,c,a.length,null,null,null)
d=C.a.az(d)
z=J.G(c,b)
y=d.length
x=J.o(z)
w=J.am(b)
if(x.J(z,y)){v=x.m(z,y)
u=w.j(b,y)
x=a.length
if(typeof v!="number")return H.i(v)
t=x-v
this.a8(a,b,u,d)
if(v!==0){this.P(a,u,t,a,c)
this.si(a,t)}else{if(typeof z!="number")return H.i(z)
t=a.length+(y-z)
u=w.j(b,y)
this.si(a,t)
this.P(a,u,t,a,c)
this.a8(a,b,u,d) },
function(a,b,c,d){ var z,y
function(c>=a.length)return -1
if(c<0)c=0
}
for(z=c;y=a.length,z<y;++z){if(z<0)return H.a(a,z)
if(J.n(a[z],b))return z}
return-1},
d0:function(a,b){return this.bM(a,b,0)},
bQ:function(a,b,c){var z
for(z=c;z>=0;--z){if(z>=a.length)return H.a(a,z)
if(J.n(a[z],b))return z}return-1},
d0:function(a,b){return this.bM(a,b,0)},
bQ:function(a,b,c){var z
c=a.length-1
for(z=c;z>=0;--z){if(z>=a.length)return H.a(a,z)
if(J.n(a[z],b))return z}return-1},
cm:function(a,b){return this.bQ(a,b,null)},
ca:function(a,b){var z
for(z=0;z<a.length;++z)if(J.n(a[z],b))return!0
return!1},
gG:function(a){return a.length===0},
gah:function(a){return a.length!==0},
p:function(a){return P.dH(a,"\[","\]")},
an:function(a,b){return H.f(a.slice(),[H.J(a,0)]),
az:function(a){return this.an(a,a!0)},
gL:function(a){return new J.cN(a,a.length,0,null)},
gal:function(a){return H.aM(a)},
gi:function(a){return a.length},
si:function(a,b){this.bG(a,"set length")
if(typeof b!="number"||Math.floor(b)!=b)throw H.b(P.aL(b,"newLength",null))
if(b<0)throw H.b(P.aL(b,0,"newLength",null))
a.length=b},
h:function(a,b){if(typeof b!="number"||Math.floor(b)!=b)throw H.b(H.ak(a,b,a)
if(b>=a.length||b<0)throw H.b(H.ak(a,b,a))
return a[b]},
k:function(a,b,c){if(!a.immutable$List)H.x(new P.w("indexed set"))
if(typeof b!="number"||Math.floor(b)!=b)throw H.b(H.ak(a,b,a))
if(b>=a.length||b<0)throw H.b(H.ak(a,b,a))
a[b]=c},
SisV:1,
$asV:1aY,
$ish:1,
$ash:null,
$isu:1,
$ise:1,
$ase:null,
C:{
p3:function(a,b){var z
if(typeof a!="number"||Math.floor(a)!=a)throw H.b(P.aL(a,"length","is not an integer"))
if(a<0||a>4294967295)throw H.b(P.aL(a,0,4294967295,"length",null))
z=H.f(new Array(a),[b])
z.fixed$Length=Array
return z}]},
wI:{"^":"cU;"},
cN:{"^":"d;a,b,c,d"},
gF:function(){return this.d},
w:function(){var z,y,x
z = this.a
y = z.length
if (this.b !== y) throw H.b(H.an(z))
x = this.c
if (x >= y) {this.d = null
return !1} this.d = z[x]
this.c = x + 1
return !0},
c4: {"^": "l;",
S: function(a, b) { var z
if (typeof b !== "number") throw H.b(H.X(b))
if (a < b) return -1
else if (a === b) {if (a === 0) {z = this.gbO(b)
if (this.gbO(a) === z) return 0
if (this.gbO(a)) return -1
return 1} return 0} else return 1},
S: function(a, b) { var z
if (typeof b !== "number") throw H.b(H.X(b))
if (a < b) return -1
else if (a > b) return 1
else if (a === b) {if (a === 0) {z = this.gbO(b)
if (this.gbO(a) === z) return 0
if (this.gbO(a)) return -1
return 1} return 0} else if (isNaN(a)) {if (isNaN(b)) return 0
return 1} else return 0},
gbO: function(a) { return a === 0 ? 1 / a < 0 : a < 0 },
aV: function(a, b) { return a % b },
c9: function(a) { return Math.abs(a) },
gic: function(a) { var z
if (a > 0) z = 1
else z = a < 0 ? -1 : a
return z },
b5: function(a) { var z
if (a >= -2147483648 && a <= 2147483647) return a
if (isFinite(a)) {z = a < 0 ? Math.ceil(a) : Math.floor(a)
return z + 0} throw H.b(new P.w("" + a + ".toInt()")),
kr: function(a) { var z, y
if (a >= 0) {if (a <= 2147483647) {z = a
if (a === z) return z
z = z + 1} else if (a >= -2147483648) {z = a
return a === z ? z : z + 1} else if (a >= 2147483648) return a
y = Math.ceil(a)
if (isFinite(y)) return y
throw H.b(new P.w("" + a + ".ceil()")),
bJ: function(a) { var z, y
if (a >= 0) {if (a <= 2147483647) return a
if (a <= -2147483648) {z = a
return a = z ? z : z - 1} y = Math.floor(a)
if (isFinite(y)) return y
throw H.b(new P.w("" + a + ".floor()")),
hu: function(a) { if (a > 0) {if (a >= 1 / 0) return Math.round(a)
else if (a <= -1 / 0) return 0 - Math.round(0 - a)
throw H.b(new P.w("" + a + ".round()")),
ks: function(a, b, c) { if (C.b.S(b, c) > 0) throw H.b(H.X(b))
if (this.S(a, b) < 0) return b
if (this.S(a, c) > 0) return c
return a },
aG: function(a, b) { var z, y, x, w
H.aJ(b)
if(b<2||b>36)throw H.b(P.S(b,2,36,"radix",null))
z=a.toString(b)
if(C.a.t(z,z.length-1)!=41)return z
y=Math.pow([da-z]+[!a([da-z]+)]?([e+k=+(d+)])$/.exec(z)
if(y==null)H.x(new P.w("Unexpected toString result: "+z))
x=J.D(y)
z=x.h(y,1)
w=x.h(y,3)
if(x.h(y,2)!=null){z+=x.h(y,2)
w=x.h(y,2).length}return z+C.a.v("",w))
p:function(a){if(a===0&&1/a<0)return "-0.0" else return ""+a}.
g1:function(a){return a&0x100000000},
av:function(a){return a},
j:function(a,b){if(typeof b!="number")throw H.b(H.X(b)) return a+b},
m:function(a,b){if(typeof b!="number")throw H.b(H.X(b)) return a-b},
v:function(a,b){if(typeof b!="number")throw H.b(H.X(b)) return a*b},
A:function(a,b){ var z
if(typeof b!="number")throw H.b(H.X(b))
z=a%b
if(z===0) return 0
if(z>0) return z
if(b<0) return z-b
else return z+b},
aB:function(a,b){if(typeof b!="number")throw H.b(H.X(b))
if((a|0)===a)if(b>=1||b<-1)return a/b|0
return this.fG(a,b),
a0:function(a,b){ return(a|0)===a?a/b|0:this.fG(a,b)},
fG:function(a,b){ var z=a/b
if(z>=-2147483648&&z<=2147483647)return z|0
if(z>0){if(z!==1/0)return Math.floor(z)}else if(z>-1/0)return Math.ceil(z)
throw H.b(new P.w("Result of truncating division is "+H.k(z)+": "+H.k(a)+" ~/ "+H.k(b)))},
X:function(a,b){if(typeof b!="number")throw H.b(H.X(b))
if(b<0)throw H.b(H.X(b))
return b>=31?0:a<<b>>>0},
aQ:function(a,b){return b>=31?0:a<<b>>>0},
n:function(a,b){ var z
if(typeof b!="number")throw H.b(H.X(b))
if(b<0)throw H.b(H.X(b))
if(a>=0)z=b>=31?0:a>>>b
else{z=b>31?31:b
z=a>>z>>>0}return z,
a_:function(a,b){ var z
if(a>=0)z=b>=31?0:a>>>b
else{z=b>31?31:b
z=a>>z>>>0}return z,
z = a >>> z >>> 0
k: function(a, b) {
  if (b < 0) throw H.b(H.X(b))
  return b > 31 ? 0 : a >>> b,
}
1: function(a, b) {
  if (typeof b !== "number") throw H.b(H.X(b))
  return (a << b) >>> 0,
}
cC: function(a, b) {
  if (typeof b !== "number") throw H.b(H.X(b))
  return a >>> b,
}
at: function(a, b) {
  if (typeof b !== "number") throw H.b(H.X(b))
  return (a & b) >>> 0,
}
u: function(a, b) {
  if (typeof b !== "number") throw H.b(H.X(b))
  return a < b,
}
B: function(a, b) {
  if (typeof b !== "number") throw H.b(H.X(b))
  return a > b,
}
J: function(a, b) {
  if (typeof b !== "number") throw H.b(H.X(b))
  return a >= b,
}
Sisdm: 1,
dJ: {"\^": "c4;",
gd4: function(a) {
  return (a & 1) === 0,
}
}
gcd: function(a) {
  var z = a < 0 ? -a - 1 : a
  if (z >= 4294967296) return J.ic(J.id(this.a0(z, 4294967296)) + 32)
  return J.ic(J.id(z)),
}
L: function(a, b, c) {
  var y
  if (typeof b !== "number" || Math.floor(b)!==b) throw H.b(P.aL(b, "exponent","not an integer"))
  if (typeof c !== "number" || Math.floor(c)!==c) throw H.b(P.aL(c, "modulus","not an integer"))
  if (b < 0) throw H.b(P.S(b, 0, null, "exponent",null))
  if (c <= 0) throw H.b(P.S(c, 1, null, "modulus",null))
  if (b === 0) return 1
  z = a < 0 || a > c ? this.A(a, c) : a
  for (y = 1; b > 0; ) {
    if ((b & 1) === 1) y = this.A(y * z, c)
    b = this.a0(b, 2)
    z = this.A(z * y, c)
  }
  return y,
}
d8: function(a, b) {
  var z, y
  if (typeof b !== "number" || Math.floor(b)!==b) throw H.b(P.aL(b, "exponent", "not an integer"))
  if (typeof c !== "number" || Math.floor(c)!==c) throw H.b(P.aL(c, "modulus", "not an integer"))
  if (b < 0) throw H.b(P.S(b, 0, null, "exponent",null))
  if (c <= 0) throw H.b(P.S(c, 1, null, "modulus",null))
  if (b === 1) return 0
  z = a < 0 || a > b ? this.A(a, b) : a
  if (z === 1) return 1
  if (z !== 0) y = (z & 1) === 0 & (b & 1) === 0
  else y = 0
  if (y) throw H.b(P.b1("Not coprime"))
  return J.p5(b, z, !0),
}
ar: function(a) {
  return ~a >>> 0,
}
bN: function(a) {
  return this.gd4(a).S0(),
}
ar: function(a) {
  return this.gd4(a).S0(),
}
Sishv: 1,
Sisdm: 1,
$isq:1,
C:{
p5:function(a,b,c){var z,y,x,w,v,u,t
z=(a&1)===0
y=b
x=a
w=1
v=0
u=0
t=1
do{for(;(x&1)===0;){x=C.b.a0(x,2)
if(z){if((w&1)!==0||(v&1)!==0){w+=b}v-=a}
v=C.b.a0(v,2)}
for(;(y&1)===0;){y=C.b.a0(y,2)
if(z){if((u&1)!==0||(t&1)!==0){u+=b}t-=a}
t=C.b.a0(t,2)}
if(x>=y){x-=y
if(z)w-=u}v-=t}
else{y=x
if(z)u-=w
t=v}while(x!==0)
if(y!==1)throw H.b(P.b1("Not coprime"))
if(t<0){t+=a}
if(t<0)t+=a}
if(t>a)t-=a
return t},
ic:function(a){a=(a>>>0)-(a>>>1&1431655765)
a=(a&858993459)+(a>>>2&858993459)
a=252645135&a+(a>>>4)
a+=a>>>8
return a+a>>>16)&63},
id:function(a){a|=a>>1
a|=a>>2
a|=a>>4
a|=a>>8
return(a|a>>16)>>>0},
ib:{"^":"c4;","$isbv:1","$isdm:1"},
cV:{"^":"l;"},
t:function(a,b){if(typeof b!="number"||Math.floor(b)!==b)throw H.b(H.ak(a,b))
if(b<0)throw H.b(H.ak(a,b))
if(b>=a.length)throw H.b(H.ak(a,b))
return a.charCodeAt(b)},
if(z.u(c,0)|z.B(c,b.length))throw H.b(P.S(c,0,b.length,null,null))
y=a.length
if(J.T(z.j(c,y),b.length))return
for(x=0;x<y;++x)if(this.t(b,z.j(c,x))!==this.t(a,x))return
new H.iZ(c,b,a),
j:function(a,b){if(typeof b!="string")throw H.b(P.aL(b,null,null))
return a+b},
kP:function(a,b){var z,y
H.be(b)
z=b.length
y=a.length
if(z>y)return!1
return b===this.ac(a,y-z)},
lV:function(a,b,c,d){H.be(c)
H.aJ(d)
P:iK(d,0,a.length,"startIndex",null)
return H.vn(a,b,c,d)},
hq:function(a,b,c){return this.lV(a,b,c,0)},
du:function(a,b){if(b==null)H.x(H.X(b))
if(typeof b!="string")return a.split(b)
else return this.j6(a,b)},
aM:function(a,b,c,d){H.be(d)
H.aJ(b)
c=P.aF(b,c,a.length,null,null,null)
H.aJ(c)
return H.kx(a,b,c,d)},
j6:function(a,b){var z,y,x,w,v,u,t
z=H.f([],[P.A])
for(y=J.kG(b,a),y=new H.jL(y.a,y.b,y.c,null),x=0,w=1;y.w();){
v=y.d
u=v.a
t=J.p(u,v.c.length)
w=J.G(t,u)
if(J.n(w,0)&&J.n(x,u))continue
z.push(this.H(a,x,u))
x=t}if(J.E(x,a.length)||J.T(w,0))z.push(this.ac(a,x))
return z},
aw:function(a,b,c){var z,y
H.aJ(c)
z=J.o(c)
if(z.u(c,0)|z.B(c,a.length))throw H.b(P.S(c,0,a.length,null,null))
if(typeof b!="string"){y=z.j(c,b.length)
if(J.T(y,a.length))return!1
return b===a.substring(c,y)}return J.la(b,a,c)!=null},
a7:function(a,b){return this.aw(a,b,0)},
H:function(a,b,c){var z
if(typeof b!="number"||Math.floor(b)!==b)H.x(H.X(b))
if(c===null)c=a.length
if(typeof c!="number"||Math.floor(c)!==c)H.x(H.X(c))
z=J.o(b)
if(z.u(b,0))throw H.b(P.d4(b,null,null))
if(z.B(b,c))throw H.b(P.d4(b,null,null))
if(J.T(c,a.length))throw H.b(P.d4(c,null,null))
return a.substring(b,c)}
ac:function(a,b){return this.H(a,b,null)},
eJ:function(a){var z,y,x,w,v
z=a.trim()
y=z.length
if(y===0)return z
if(this.t(z,0)===133){x=J.p7(z,1)
if(x===y)return"
}else x=0
w=y-1
v=this.t(z,w)===133?J.p8(z,w):y
if(x===0&v===y)return z
return z.substring(x,v)},
v:function(a,b){var z,y
if(typeof b!="number")return H.i(b)
if(0>=b)return"
if(b===1||a.length===0)return a
if(b!==b>>>0)throw H.b(C.Q)
for(z=a,y="";!0;){if((b&1)===1)y=z+y
b=b>>>1
if(b===0)break
z+=z}return y},
gku:function(a){return new H.m3(a)},
bM:function(a,b,c){if(c<0||c>a.length)throw H.b(P.S(c,0,a.length,null,null))
return a.indexOf(b,c)},
d0:function(a,b){return this.bM(a,b,0)},
bQ:function(a,b,c){var z,y
if(c==null)c=a.length
else if(c<0||c>a.length)throw H.b(P.S(c,0,a.length,null,null))
z=b.length
if(typeof c!="number")throw H.i(b)
y=a.length
if(c+z>y)c=y-z
return a.lastIndexOf(b,c)},
ac:function(a,b){return this.H(a,b,null)},
h2:function(a,b,c){if(b==null)H.x(H.X(b))
if(c>a.length)throw H.b(P.S(c,0,a.length,null,null))
return H.vm(a,b,c)},
bb:function(a,b,c){if(c==null)z=a.length
else if(c<0||c>a.length)throw H.b(P.S(c,0,a.length,null,null))
z=b.length
if(typeof c!="number")throw c.i()}
y=a.length
if(c+z>y)c=y-z
return a.lastIndexOf(b,c)},
cm:function(a,b){return this.H(a,b,null)},
h2:function(a,b,c){if(b==null)H.x(H.X(b))
if(c>a.length)throw H.b(P.S(c,0,a.length,null,null))
return H.vm(a,b,c)},
ab:function(a,b){return this.H(a,b,null)},
gG:function(a){return a.length===0},
gah:function(a){return a.length!==0},
S:function(a,b){var z
if(typeof b!="string")throw H.b(H.X(b))
if(a===b)z=0
else z=a<b?-1:1
return z},
p:function(a){return a},
gf:function(a){var z,y,x
for(z=a.length,y=0,x=0;x<z;++x){y=536870911&&y+a.charCodeAt(x)
y=536870911&&y+((524287&&y)<<10>>0)
y^=y>>6}y=536870911&&y+((67108863&&y)<<3>>0)
y^=y>>11
return 536870911&&y+((16383&&y)<<15>>0)},
gi:function(a){return a.length},
h:function(a,b){if(typeof b!="number"||Math.floor(b)!==b)throw H.b(H.ak(a,b))
if(b>=a.length||b<0)throw H.b(H.ak(a,b))
return a[b]},
$isV:1,
$asV:I.aY,
$asA:1,
C:{
ig:function(a){if(a<256)switch(a){case 9:case 10:case 11:case 12:case 13:case 160:return!0
default:return!1}},
p7:function(a,b){var z,y
for(z=a.length;b<z;){y=C.a.t(a,b)
if(y!==32&&y!==13&&!J.ig(y))break;++b}return b},
p8:function(a,b){var z,y
for(;b>0;b=z){z=b-1
y=C.a.t(a,z)
if(y!==32&&y!==13&&!J.ig(y))break}return b}}]}}}^"",""{"^"",H,"{"^":",b2:function(){return new P.I("No element")},
i9:function(){return new P.I("Too few elements")},
m3:{"^":"","j;b,a",
gi:function(a){return this.a.length},
h:function(a,b){return C.a.t(this,a,b)},
$asjb:function(){return[P.q]},
$asbc:function(){return[P.q]},
$ash:function(){return[P.q]},
$ase:function(){return[P.q]},
bl:{"^":"","e:"},
gL:function(a){return new H.ih(this,this.gi(this),0,null)},
O:function(a,b){var z,y
z=this.gi(this)
if(typeof z!="number")return H.i(z)
y=0
for(;y<z;++y)b.$1(this.N(0,y))
if(z===this.gi(this))throw H.b(new P.al(this))},{
gG:function(a){return J.n(this.gi(this),1)},
gM:function(a){if(J.n(this.gi(this),0))throw H.b(H.b2())
return this.N(0,J.G(this.gi(this),1)))},

Open Source Used In Edge and Fog Processing Module 1.6.0
152
aa:function(a,b){ var z,y
z=this.gi(this)
if(typeof z!="number") return H.i(z)
y=0
for(y<z;++y){if(J.n(0,y,b)) return 0
if(z!==this.gi(this)) throw H.b(new P.al(this))
}
be:function(a,b){ return H.f(new H.f6(this,b),[H.a7(this,bl,0),null])
}
aX:function(a,b){ return H.dX(this,b,null,H.a7(this,bl,0))
}
an:function(a,b){ var z,y,x
z=H.f([],[H.a7(this,bl,0)])
C.c.si(z,this.gi(this))
y=0
while(!0){ x=this.gi(this)
if(typeof x!="number") return H.i(x)
if(!y<z) break
x=this.N(0,y)
if(y>=z.length)return H.a(z,y)
z[y]=x;++y}
return z,
az:function(a){ return this.an(a,0)
}
$isu:1,
qL:{ "^":bl:a,b,c 
}
gj8:function(){ var z,y
z=J.y(this.a)
y=this.c
if(y==null||J.T(y,z)) return z
return y,
gk5:function(){ var z,y
z=J.y(this.a)
y=this.b
if(J.T(y,z)) return z
return y,
}
gi:function(a){ var z,y,x
z=J.y(this.a)
y=this.b
if(J.a8(y,z)) return J.G(z,y)
return J.G(x,y),
N:function(a,b){ var z=J.p(this.gk5(),b)
if(J.Er(b,0)[J.a8(z,this.gj8())]) throw H.b(P.a3(b,this,"index",null,null))
return J.cL(this.a,z),
aX:function(a,b){ var z,y
if(J.Er(b,0))H.x(P.S(b,0,null,"count",null))
z=J.p(this.b,b)
y=this.c
if(y!==null&J.a8(z,y)) y=new H.hQ()
y.$ builtinTypeInfo= this.$builtinTypeInfo
return y}
return H.dX(this,a,z,y,H.J(this,0)),}
an:function(a,b){var z,y,x,w,u,t,s,r,q
  z=this.b
  y=this.a
  x=J.D(y)
  w=x.gi(y)
  v=this.c
  if(v!={}&&J.E(v,w))w=v
  u=J.G(w,z)
  if(J.E(u,0))u=0
  if(b){t=H.f([],[H.J(this,0)])
    C.c.si(t,u)}else{if(typeof u!="number")return H.i(u)
    s=new Array(u)
    s.fixed$length=Array
    t=H.f(s,[H.J(this,0)])
    if(typeof u!="number")return H.i(u)
    s=J.am(z)
    r=0
    for(r<u;+;++r){q=x.N(y,s.j(z,r))
      if(r==t.length)return H.a(t,r)
      t[r]=q
      if(J.E(x.gi(y),w))throw H.b(new P.al(this))}return t},
az:function(a){return this.an(a,!0)},
iH:function(a,b,c,d){var z,y,x
  z=this.b
  y=J.o(z)
  if(y.u(z,0))H.x(P.S(z,0,null,"start",null))
  x=this.c
  if(x!=null){if(J.E(x,0))H.x(P.S(x,0,null,"end",null))
    if(y.B(z,x))throw H.b(P.S(z,0,x,"start",null))}
  C:{
    dX:function(a,b,c,d){var z=H.f(new H.qL(a,b,c),[d])
      z.iH(a,b,c,d)
      return z}}},
ih:{"^":"d;a,b,c,d",
  gF:function(){return this.d},
w:function(){var z,y,x,w
    z=this.a
    y=J.D(z)
    x=y.gi(z)
    if(!J.n(this.b,x))throw H.b(new P.al(z))
    w=this.c
    if(typeof x!="number")return H.i(x)
    if(w>=x){this,d=null
      return!1}this,d=y.N(z,w);++this.c
    return!0}},
io:{"^":"e;a,b",
  gL:function(a){var z=new H.pB(null,J.aQ(this.a),this.b)
    z.$builtinTypeInfo=this.$builtinTypeInfo
    return z}
gi:function(a){return J.y(this.a)},
gG:function(a){return J.h1(this.a)},
gM:function(a){return this.b.$1(J.h2(this.a))},
N:function(a,b){return this.b.$1(J.cL(this.a,b))},
Sase:function(a,b){return[b]},
C:{
cv:function(a,b,c,d){if(!J.t(a).Sisu)return H.f(new H.hP(a,b),[c,d])
return H.f(new H.io(a,b),[c,d])},
hP:{"^":"io;a,b",Sisu:1},
pB:{"^":"df;a,b,c"},
w:function(){var z=this.b
if(z.w())(this.a=this.c.$1(z.gF())
return!0)this.a=null
return!1},
gF:function(){return this.a },
f6:{"^":"bl;a,b"},
fi:function(a){return J.y(this.a)},
N:function(a,b){return this.b.$1(J.cL(this.a,b))},
Sasbl:function(a,b){return[b]},
Sase:function(a,b){return[b]},
Sisu:1},
fo:{"^":"e;a,b"},
GL:function(a){var z=new H.rk(J.aQ(this.a),this.b)
z.$builtinTypeInfo=this.$builtinTypeInfo
return z},
rk:{"^":"df;a,b"},
w:function(){var z,y
for(z=this.a,y=this.b;z.w();y.$1(z.gF())===!0)return!0
return!1},
gF:function(){return this.a.gF()}},
j_:{"^":"e;a,b"},
GL:function(a){var z=new H.qR(J.aQ(this.a),this.b)
z.$builtinTypeInfo=this.$builtinTypeInfo
return z},
C:{
qQ:function(a,b,c){if(typeof b!="number"|Math.floor(b)!==b||b<0)throw H.hb(P.N(b))
if(!J.t(a).Sisu)return H.f(new H.nM(a,b),[c])
return H.f(new H.j_(a,b),[c])},
nM:{"^":"j_;a,b"},
gi:function(a){var z,y
z=J.y(this.a)
y=this.b
if(J.T(z,y))return y
return z},
Sisu:1},
qR:{"^":"df;a,b"},
w:function(){var z=J.G(this.b,1)
this.b=z
aa:function(a,b){return!1},
be:function(a,b){return C.M},
aX:function(a,b){if(J.E(b,0))H.x(P.S(b,0,null,"count",null))
return this},
an:function(a,b){var z
if(b)z=H.f([],[H.J(this,0)])
else{z=new Array(0)
z.fixed$length=Array
z=H.f(z,[H.J(this,0)])}return z},
az:function(a){return this.an(a,0)},
$sisu:1},
nN:{"^":"d;",
w:function(){return!1},
gF:function(){return},
i1:{"^":"d;",
si:function(a,b){throw H.b(new P.w("Cannot change the length of a fixed-length list"))},
K:function(a,b){throw H.b(new P.w("Cannot add to a fixed-length list"))},
Y:function(a,b){throw H.b(new P.w("Cannot remove from a fixed-length list"))},
b3:function(a){throw H.b(new P.w("Cannot remove from a fixed-length list"))},
aM:function(a,b,c,d){throw H.b(new P.w("Cannot remove from a fixed-length list"))},
r0:{"^":"d;",
k:function(a,b,c){throw H.b(new P.w("Cannot modify an unmodifiable list"))},
si:function(a,b){throw H.b(new P.w("Cannot change the length of an unmodifiable list"))},
K:function(a,b){throw H.b(new P.w("Cannot add to an unmodifiable list"))},
Y:function(a,b){throw H.b(new P.w("Cannot remove from an unmodifiable list"))},
b3:function(a){throw H.b(new P.w("Cannot remove from an unmodifiable list"))},
P:function(a,b,c,d,e){throw H.b(new P.w("Cannot modify an unmodifiable list"))},
a8:function(a,b,c,d){return this.P(a,b,c,d,0)},
aM:function(a,b,c,d){throw H.b(new P.w("Cannot remove from an unmodifiable list"))},
ak:function(a,b,c,d){throw H.b(new P.w("Cannot modify an unmodifiable list"))},
Sish:1,
$ash:null,
$isu:1,
$sise:1,
$sase:null},
jh:{"^":bc+r0;","Sish:1,$ash:null,$isu:1,$sise:1,$sase:null}]}],
{"^":"H",{"^":"",
dg:function(a,b){var z=a.ce(b)
if(init.globalState.d.cy)init.globalState.f.cs()
return z},
kw:function(a,b){var z,y,x,w,v,u
z=[]
z.a=b
if(b===null){b=[]}
z.a=b
y=b}else y=b
if(!J.t(y).Sish)throw H.b.P.N("Arguments to main must be a List: "+H.k(y)))
init.globalState=new H.tj(0,0,1,null,null,null,null,null,null,null,null,a)
y=init.globalState
y=J.D(z)
switch(y.h(z,"command")){case"start":init.globalState.b=y.h(z,"id")
x=y.h(z,"functionName")
w=x==null?init.globalState.cx:;init.globalFunctions[x]()
v=y.h(z,"args")
u=new H.e2(0,[]).bs(y.h(z,"msg"))
x=y.h(z,"isSpawnUri")
y=init.globalState.a++
q=H.f(new H.a0(0,null,null,null,null,0),[P.q,H.fs])
p=P.cu(null,null,null,P.q)
o=new H.dS(0,null,1)

n=new H.fs(y.q,p,init.createNewIsolate(),o, new H.bZ(H.ek()),new H.bZ(H.ek()),1,1,[],P.cu(null,null,null),null,null,1,0,P.cu(null,null,null))

p.K(0,0)

n.f(0,0)
in.initializeGlobalState.f.a.aC(0,new H.dc(n,new H.oY(w,v,u,t,s,r),"worker-start"))
in.initializeGlobalState.d=n
in.initializeGlobalState.f.cs()
break
case"spawn-worker":break
case"message":if(y.h(z,"port")!==null)J.bU(y.h(z,"port"),y.h(z,"msg"))
in.initializeGlobalState.f.cs()
break
case"close":in.initializeGlobalState.ch.Y(0,$.$get$i7().h(0,a))
a.terminate()
in.initializeGlobalState.f.cs()
break
case"log":H.oW(y.h(z,"msg"))
break
case"print":if(init.globalState.x===!0){y=init.globalState.Q
q=P.aj(["command","print","msg",z])
q=new H.cb(!0,P.cE(null,P.q)).aO(q)
y.toString
self.postMessage(q)}else P.cJ(y.h(z,"msg"))
break
case"error":throw H.b(y.h(z,"msg"));}
}

oZ:function(a,b,c,d,e,f){var z,y,x,w
if(init.globalState.x===!0){y=init.globalState.Q
x=P.aj(["command","log","msg",a])
x=new H.cb(!0,P.cE(null,P.q)).aO(x)
y.toString
self.postMessage(x)}else try{self.console.log(a)}catch(w){H.Y(w)
z=H.ab(w)
throw H.b(P.b1(z))}]

oZ:function(a,b,c,d,e,f){var z,y,x,w
z=init.globalState.d
x=y+2
z.toString
if(typeof z!="object"||z===null||z.fixed$length)H.x(new P.w("removeRange"))
P.aF(y,x,z.length,null,null,null)
z.splice(y,x-y)
return}}},
 ia:function(a,b){if(!this.r.q(0,a)return
this.db=b},
 10:function(a,b,c){var z=J.t(b)
if(!z.q(b,0))z=q(b,1)**)&this.cy
else z=!0
if(z)J.bU(a,c)
return}z=this.cx
if(z==null){z=P.dL(null,null)
this.cx=z}aC(0,new H.t3(a,c))},
kZ:function(a,b){var z
if(!this.r.q(0,a))return
z=J.t(b)
if(!z.q(b,0))z=q(b,1)**)&this.cy
else z=!0
if(z){this.eq()
return}z=this.cx
if(z==null){z=P.dL(null,null)
this.cx=z}aC(0,this.gld())},
l1:function(a,b){var z,y,x
z=this.dx
if(z.a===0){if(this.db===!0&&this===init.globalState.e)return
if(self.console&&self.console.error)self.console.error(a,b)
else{P.cJ(a)
if(b!=null)P.cJ(b))}return}y=new Array(2)
y[0]=J.aR(a)
y[1]=b==null?null:J.aR(b)
for(x=new P.jE(z,z.r,null,null),x.c=z.e;x.w();)
J.bU(x.d,y)
}ce:function(a){var z,y,x,w,v,u,t
z=init.globalState.d
init.globalState.d=this
$q=this.d
y=null
x=this.cy
this.cy=!0
try{y=a.$0()}catch(u){t=H.Y(u)
w=t
v=H.ah(u)
this.11(w,v)
if(this.db===!0){this.eq()
if(this===init.globalState.e)throw u}finally{this.cy=x
init.globalState.d=z
if(z!=null)$=z.glc()
if(this.cx!=null)for(t=this.cx.t.gG(t);this.cx.eB().S0() return y],
ev:function(a){return this.b.h(0,a)},
f4:function(a,b){var z=this.b
if(z.D(0,a))throw H.b(P.b1("Registry: ports must be registered only once."))
z.k(0,a,b)},
e2:function(){var z=this.b
if(z.gi(z)-this.c.a>0||this.y||!this.x)init.globalState.z.k(0,this.a,this)
else this.eq()}
eq:function(){var z,y,x,w,v
z=this.cx
if(z!=null)z.ag(0)
for(z=this.b,y=z.gbh(z),y=y.gL(y);y.w;)y.gF().iO()
z.ag(0)
this.c.ag(0)
init.globalState.z.Y(0,this.a)
this.dx.ag(0)
if(this.ch!=null){for(x=0;z=this.ch,y=z.length,x<y;x+=2){w=z[x]
v=x+1
if(v==y)return H.a(z,v)
J.bU(w,z[v])this.ch=null },"S0","gld",0,0,2],
t3:{"^":"m:2;a,b",
$0:function(){J.bU(this.a,this.b)}},
rK:{"^":"d;a,b",
kG:function(){var z=this.x
if(z==null){if(init.globalState.e!=null)if(init.globalState.z.D(0,init.globalState.e.a))if(init.globalState.r===!0){y=init
globalState.e.b
y=y.gG(y)}else y=!1}else y=!1
if(y)H.x(P.b1("Program exited with open ReceivePorts."))
y=init.globalState
if(y.x===!0){x=y.z
x=x.gG(x)&amp;y.f.b===0}else x=!1
if(x) {y=y.Q
x=H.a(["command","close"])
x=new H.cb(!0,H.f(new P.jF(0,null,null,null,null,0),[null,P.q])).aO(x)
y.toString
self.postMessage(x) return!1 |z.IM()
return!0},
fC:function(){if(self.window!=null)new H.rL(this).S0()
else for(this.hw();};},
cs:function(){var z,y,x,w,v
if(init.globalState.x!==!0)this.fC()}
else try{this.fC()}catch(x){w=H.Y(x)
  z=w
  y=H.ah(x)
  w=init.globalState.Q
  v=P.aj(['command','error','msg',H.k(z)+'\n'+H.k(y)])
  v=new H.cb(!0,P.cE(null,P.q)).aO(v)
  w.toString
  self.postMessage(v)}}},
  rL:{'\^':'m:2;a',
  S0:function(){if(!this.a.hw())return
    P.cz(C.o,this)}},
  dc:{'\^':'d;a,b,ab:c>',
    lM:function(){var z=this.a
      if(z.y){z.z.push(this)
        return}z.ce(this.b)}},
  ti:{'\^':'d;'},
  oY:{'\^':'m:0;a,b,c,d,e,f',
    S0:function(){H.oZ(this.a,this.b,this.c,this.d,this.e,this.f)}},
  p_:{'\^':'m:2;a,b,c,d,e',
    S0:function(){var z,y,x,w
      z=this.e
      z.x=!0
      if(this.d!==!0)this.a.$1(this.c)
      else{y=this.a
        x=H.dj()
        w=H.cg(x,[x,x]).bo(y)
        if(w)y.$2(this.b,this.c)
        else{x=H.cg(x,[x]).bo(y)
          if(x)y.$1(this.b)
          else y.$0()}}z.e2()}},
  jq: {'\^':'d;'},
  e5: {'\^':'j?q;b,a'},
  b7:function(a,b){var z,y,x
    z=init.globalState.z.h(0,this.a)
    if(z===null)return
    y=this.b
    if(y.gfj())return
    x=H.ua(b)
    if(z.gkw()===y){y=J.D(x)
      switch(y.h(x,0)){case"pause":z.fR(y.h(x,1),y.h(x,2))
        break
      case"resume":z.lU(y.h(x,1))
        break
      case"add-ondone":z.kj(y.h(x,1),y.h(x,2))
        break
      case"remove-ondone":z.lR(y.h(x,1))
        break
      case"set-errors-fatal":z.ia(y.h(x,1),y.h(x,2))
        break
    }else y=null
    if(z!==null)return
    y=this.b
    if(y.gfj())return
    x=H.ua(b)
    if(z.gkw()===y){y=J.D(x)
      switch(y.h(x,0)){case"pause":z.fR(y.h(x,1),y.h(x,2))
        break
      case"resume":z.lU(y.h(x,1))
        break
      case"add-ondone":z.kj(y.h(x,1),y.h(x,2))
        break
      case"remove-ondone":z.lR(y.h(x,1))
        break
      case"set-errors-fatal":z.ia(y.h(x,1),y.h(x,2))
        break
    }else y=null
    if(y.gfj())return
  }
break
case "ping": z.l0(y.h(x,1), y.h(x,2), y.h(x,3))
break
case "kill": z.kZ(y.h(x,1), y.h(x,2))
break
case "getErrors": y=y.h(x,1)
z.dx.K(0, y)
break
case "stopErrors": y=y.h(x,1)
z.dy.Y(0, y)
break}return}init.globalState.f.a.aC(0, new H.dc(z, new H.tm(this, x), "receive")),
q:function(a,b){if(b==null) return!1
return b instanceof H.e5& &J.n(this.b,b.b)},
gal:function(a){return this.b.gdQ()}
}
tm:{"^": "m:0; a, b",
$0:function(){ var z=this.a.b
if(!z.gfj())z.iN(0, this.b)}},
fE:{"^": "jq; b, c, a",
b7:function(a,b){ var z, y, x
z=P.aj(["command", "message", "port", this, "msg", b])
y=new H.cb(!0, P.cE(null, P.q)).aO(z)
if(init.globalState.x===!0) {init.globalState.Q.toString
self.postMessage(y)}else {x=init.globalState.ch.h(0, this.b)
if(x!=null)x.postMessage(y)}
q:function(a,b){if(b==null) return!1
return b instanceof H.fE& &J.n(this.b, b.b) & &J.n(this.a, b.a) & &J.n(this.c, b.c)},
dS:{"^": "d; dQ:a<, b, f; c<",
iO:function(){this.c=!0}
this.b=null},
iN:function(a,b){if(this.c) return
this.b.$1(b)},
$iSpW:1},
j4:{"^": "d; a, b, c",
V:function(a){ var z
if(self.setTimeout!=null){if(this.b) throw H.b(new P.w("Timer in event loop cannot be canceled."))
z=this.c
if(z==null) return;--init.globalState.f.b
if(this.a) self.clearTimeout(z)
else self.clearInterval(z)
this.c=null} else throw H.b(new P.w("Canceling a timer."))},
if:function(a,b){if(self.setTimeout!=null) {++init.globalState.f.b
this.c=self.setInterval(H.aC(new H.qU(this.b, 0), a)) else throw H.b(new P.w("Periodic timer."))},
if:function(a,b){ var z, y
if(a==0) z=self.setTimeout==null||init.globalState.x==!0
else z=!1
if(z){this.c=1
z=init.globalState.f
y=init.globalState.d
z.a.ac(0,new H.dc(y,new H.qV(this,b),"timer"))
this.b=0}else if(self.setTimeout!=null){++init.globalState.f.b
this.c=self.setTimeout(H.aC(new H.qW(this,b),0),a)}else throw H.b(new P.w("Timer greater than 0."));
C:{
qS:function(a,b){var z=new H.j4(!0,!1,null)
z.iI(a,b)
return z},
qT:function(a,b){var z=new H.j4(!1,!1,null)
z.iJ(a,b)
return z}}},
qV:{"^":"m:2;a,b",
$0:function(){this.a.c=null
this.b.$0()}},
qW:{"^":"m:2;a,b",
$0:function(){this.a.c=null;--init.globalState.f.b
this.b.$0()}},
qU:{"^":"m:0;a,b",
$0:function(){this.b.$1(this.a)}},
bZ:{"^":"d:dQ:a<",
gal:function(a){var z,y
z=this.a
y=J.o(z)
z=J.r(y.n(z,0),y.aB(z,4294967296))
y=J.o(z)
z=J.c(J.p(y.ar(z),y.X(z,15)),4294967295)
y=J.o(z)
z=J.c(J.aw(y.at(z,y.n(z,12)),5),4294967295)
y=J.o(z)
z=J.c(J.aw(y.at(z,y.n(z,4)),2057),4294967295)
y=J.o(z)
return y.at(z,y.n(z,16))},
q:function(a,b){var z,y
if(b===null)return!1
if(b===this) return!0
if(b instanceof H.bZ){z=this.a
y=b.a
return z===null?y===null?z===y?return!1}:}
cb:{"^":"d:a,b",
aO:function(a){var z,y,x,w,v
if(a===null)typeof a==="string"||typeof a==="number"||typeof a==="boolean")return a
z=this.b
y=z.h(0,a)
if(y===null)return"ref",y
z.k(0,a,z.gi(z))
z=J.t(a)
if(!z.Sisfa)return"buffer",a
if(!z.Sisd_.return"typed",a}
if(!z.$isV)return this.i5(a)
if(!z.$isV) {x = this.$i2()
      w = z.$a9(a)
      w = H.cv(w, x, H.a7(w, "e", 0), null)
      w = P.bm(w, !0, H.a7(w, "e", 0))
      z = z.$gbh(a)
      z = H.cv(z, x, H.a7(z, "e", 0), null)
      return ["map", w, P.bm(z, !0, H.a7(z, "e", 0))]
    } if(!z.$is6) return this.$i6(a)
if(!z.$isW) this.hy(a)
if(!z.$isW) this.cv(a, "RawReceivePorts can't be transmitted:"
    )
if(!z.$is5) return this.$i7(a)
if(!z.$isE) return this.$i8(a)
if(!z.$isE) {v = a.$static
    name
    if(v == null) this.cv(a, "Closures can't be transmitted:")
    return ["function", v]
  } if(!z.$isZ) return ["capability", a, a]
if(!(a instanceof P.d)) this.hy(a)
return ["dart", init.classIdExtractor(a), this.$i4(init.classFieldsExtractor(a))];

  cv: function(a, b) { throw H.b(new P.w(H.k(b ==
null ? "Can't transmit:" + b) + " +H.k(a))});
hy: function(a) { return this.cv(a, null)},
i5: function(a) { var z = this.$i3(a)
      if(!a.fixed$length) return ["fixed", z]
    } if(!a.fixed$length) return ["extendable", z]
    if(!a.immutable$list) return ["mutable", z]
    if(a.constructor === Array) return ["const", z]
    this.cv(a, "Can't serialize indexable: ")},
i3: function(a) { var z, y, x
    z = []
    C.c.si(z, a.length)
    for(y = 0; y < a.length; ++y) { x = this.aO(a[y])
      if(y >= z.length) return H.a(z, y)
      z[y] = x; return z,
    } i4: function(a) { var z
      for(z = 0; z < a.length; ++z) C.c.k(a, z, this.aO(a[z]))
      return a,
    } i6: function(a) { var z, y, x, w
      if(!a.constructor && &a.constructor !== Object) this.cv(a, "Only plain JS Objects are supported:")
    } z = Object.keys(a)
    y = []
    C.c.si(y, z.length)
    for(x = 0; x < z.length; ++x) { w = this.aO(a[z[x]])
      if(x >= y.length) return H.a(y, x)
      y[x] = w; return ["js-object", z, y],
    } i8: function(a) { if(this.a) return ["sendport", a, b, a, a, c]
      return ["raw sendport", a],
    } i7: function(a) { if(this.a) return ["sendport", init.globalState.b, a, a, b, gdQ()]
      return ["raw sendport", a],
    } e2: ["\^", ":d;", a, b],
} bs:[function(a) { var z, y, x, w, v, u
if(a === null || typeof a === "string" || typeof a === "number" || typeof a === "boolean") return a
if(typeof a !== "object" || a === null || a.constructor !== Array) throw H.b(P.N("Bad serialized message: " + H.k(a)));
switch(C.c.gkS(a)) {
case "ref": if(1 >= a.length) return H.a(a, 1);

z = a[1];
y = this.b;
if(z >>> 0 !== z || z >= y.length) return H.a(y, z);
return y[z];
case "buffer": if(1 >= a.length) return H.a(a, 1);
x = a[1];
this.b.push(x);
return x;
case "typed": if(1 >= a.length) return H.a(a, 1);
x = a[1];
this.b.push(x);
return x;
case "fixed": if(1 >= a.length) return H.a(a, 1);
x = a[1];
this.b.push(x);
y = H.f(this.cc(x), [null]);
y.fixed$.length = Array;
return y;
case "extendable": if(1 >= a.length) return H.a(a, 1);
x = a[1];
this.b.push(x);
return H.f(this.cc(x), [null]);
case "mutable": if(1 >= a.length) return H.a(a, 1);
x = a[1];
this.b.push(x);
return this.cc(x);
case "const": if(1 >= a.length) return H.a(a, 1);
x = a[1];
this.b.push(x);
y = H.f(this.cc(x), [null]);
y.fixed$.length = Array;
return y;
case "map": return this.kJ(a);
case "sendport": return this.kK(a);
case "raw sendport": if(1 >= a.length) return H.a(a, 1);
x = a[1];
this.b.push(x);
return x;
case "js-object": return this.kI(a);
case "function": if(1 >= a.length) return H.a(a, 1);
x = init.globalFunctions[a[1]]();
this.b.push(x);
return x;
case "capability": if(1 >= a.length) return H.a(a, 1);
return new H.bZ(a[1]);
case "dart":
y = a.length
if (1 >= y) return H.a(a, 1)
w = a[1]
if (2 >= y) return H.a(a, 2)
v = a[2]
u = init.instanceFromClassId(w)
this.b.push(u)
this.cc(v)
return init.initializeEmptyInstance(w, u, v)
default:
throw H.b("couldn't deserialize: "+H.k(a))
]
cc:function(a){var z,y,x
z=J.D(a)
y=0
while(!0){x=z.gi(a)
if(typeof x!="number")return H.i(x)
if(!(y<x))break
z.k(a,y,this.bs(z.h(a,y)));++y}return a},
kJ:function(a){var z,y,x,w,v,u
z=a.length
if (1>=z) return H.a(a, 1)
y=a[1]
if (2>=z) return H.a(a, 2)
x=a[2]
w=P.a5()
this.b.push(w)
y=J.l9(y,this.gkH()).az(0)
for(z=J.D(y),v=J.D(x),u=0;u<z.gi(y);++u){if(u>=y.length)return H.a(y,u)
w.k(0,y[u],this.bs(v.h(x,u)))}return w},
kK:function(a){var z,y,x,w,v,u,t
z=a.length
if (1>=z) return H.a(a, 1)
y=a[1]
if (2>=z) return H.a(a, 2)
x=a[2]
if (3>=z) return H.a(a, 3)
w=a[3]
if(J.n(y,init.globalState.b)){v=init.globalState.z.h(0,x)
if(v==null)return
u=v.ev(w)
if(u==null)return
t=new H.e5(u,x) else t=new H.fE(y,w,x)
this.b.push(t)
return t},
kI:function(a){var z,y,x,w,v,u,t
z=a.length
if (1>=z) return H.a(a, 1)
y=a[1]
if (2>=z) return H.a(a, 2)
x=a[2]
w=[]
this.b.push(w)
z=J.D(y)
v=J.D(x)
u=0
while(!0){t=z.gi(y)
  if(typeof t!="number")return H.i(t)
  if(!(u<t))break
  w[z.h(y,u)]=this.bs(v.h(x,u));++u}
return w}}
],
"""
if(a!==0)return "true"
else if(!a)return "false"
else if(a==null)return "null"
z=J.aR(a)
if(typeof z!="string")throw H.b(H.X(a))
return z}
aM:function(a){var z=a.$identityHash
  if(z==null){z=Math.random()*0x3fffffff|0
    a.$identityHash=z}return z}
aA:function(a,b,c){var z,y,x,w,v,u,t,s
  H.be(a)
  z=/^\s*[-+]?(0x[a-f0-9]+)|([0-9]+)|([a-z0-9]+)\s*$/i.exec(a)
  if(z==null)return H.fd(a,c)
  if(3>=z.length)return H.a(z,3)
  y=z[3]
  if(b==null){if(y!==null)return parseInt(a,10)
    if(z[2]!==null)return parseInt(a,16)
    return H.fd(a,c)}if(b<2||b>36)throw H.b(P.S(b,2,36,"radix",null))
  if(b===10&&y!==null)return parseInt(a,10)
  if(b<10&&y==null){x=b<=10?47+b:86+b
    w=z[1]
    for(v=w.length,u=0;u<v;++u)if((C.a.t(w,u)|32)>x)return H.fd(a,c)
    return parseInt(a,b)
  }else if(b==null)throw H.b(new P.w("Cannot modify unmodifiable Map"))
  kn:function(a){return init.getTypeFromName(a)}
  uU:function(a){return init.types[a]}
  km:function(a,b){var z
    if(b!=null){z=b.x
      if(z!=null)return z}return!!J.t(a).$isa_}
  k:function(a){var z
    if(typeof a==="string")return a
    if(typeof a=="number"){if(a!==0)return""+a}else if(!a)return"null"}
    else if(a==null)return"false"
    else if(a==null)return"true"
    else if(a==null)return"false"
    else if(a==null)return"true"
    else if(a==null)return"false"
    else if(a==null)return"true"
    else if(a==null)return"false"
    else if(a==null)return"true"
    else if(a==null)return"false"
    else if(a==null)return"true"
    else if(a==null)return"false"
    else if(a==null)return"true"
    else if(a==null)return"false"
    else if(a==null)return"true"
    else if(a==null)return"false"
    else if(a==null)return"true"
    else if(a==null)return"false"
    else if(a==null)return"true"
    else if(a==null)return"false"
    else if(a==null)return"true"
    else if(a==null)return"false"
    else if(a==null)return"true"
    else if(a==null)return"false"
    else if(a==null)return"true"
    else if(a==null)return"false"
    else if(a==null)return"true"
    else if(a==null)return"false"
    else if(a==null)return"true"
    else if(a==null{return H.b(new P.w("Cannot modify unmodifiable Map"))}
    if(typeof x!="string")throw H.b(new P.w("Cannot modify unmodifiable Map"))
if(v === "Object") { u = a.constructor
if(typeof u === "function") {
    t = String(u).match(/\^[s*function-s*]\(/)
    s = t || null
    t[1];
} if(typeof s === "string" && /w+/s/.test(s)) w = s
else w = v
}
w = w
if(w.length > 1 && C.a.t(w, 0) === 36) w = C.a.ac(w, 1)
return function(b, c) {
    return b.replace(/[^<,>]+/g, function(d) {
        return c[d] || d
    })(w + H.fP(H.ee(a), 0, null, init.mangledGlobalNames)},
dQ:function(a) {
    return "Instance of "+H.ex(a)+""
},
ix:function(a) {
    var z, y, x, w
    z = a.length
    if(z <= 500) return String.fromCharCode.apply(null, a)
    for(y = ",x = 0; x < z; x = w) { w = x + 500
        v = w < z ? w : z
    }
y += String.fromCharCode.apply(null, a.slice(x, v))
    return y,
pP:function(a) {
    var z, y, x, w
    z = H.f([], [P.q])
    for(y = a.length, x = 0; x <= a.length; a.length === y) {
        w = a[x]
    }
    if(typeof w === "number") {
        Math.floor(w) !== w && throw H.b(H.X(w))
    }
w = 65535) z.push(w)
    else if(w <= 1114111) {
        z.push(55296 + (C.b.a_(w - 65536, 10) & 1023))
        z.push(56320 | w & 1023)
    }
    else throw H.b(H.X(w))
    return H.ix(z),
iH:function(a) {
    var z, y, x, w
    for(z = a.length, y = 0; x = a.length, y < z; y === z) {
        w = a[y]
    }
    if(typeof w === "number") {
        Math.floor(w) !== w && throw H.b(H.X(w))
    }
w = 0) throw H.b(H.X(w))
    if(w > 65535) return H.pP(a) return H.ix(a),
pQ:function(a, b, c) {
    var z, y, x, w
    z = J.o(c)
    if(z.ae(c, 500) && b === 0 && z.q(c, a.length)) return String.fromCharCode.apply(null, a)
    if(typeof c !== "number") return H.i(c)
    y = b
    x = ""
    for(y < c; y = w + 500
        w = w < c ? w : c
    }
x += String.fromCharCode.apply(null, a.subarray(y, v))
    return x,
dR:function(a) {
    var z
    if(typeof a !== "number") return H.i(a)
    if(0 <= a) {
        if(a <= 65535) return String.fromCharCode(a)
        if(a <= 1114111) {
            z = a - 65536
            return String.fromCharCode((55296 | (C.d.a_(z, 10))) >>> 0, 56320 | z & 1023)
        }
    }
    throw H.b(P.S(a, 0, 1114111, null, null)),
pR:function(a, b, c, d, e, f, g, h) {
    var z, y, x, w
    H.aJ(a)
    H.aJ(b)
    H.aJ(c)
    H.aJ(d)
    H.aJ(e)
    H.aJ(f)
H.aJ(g)
z=J.G(b,1)
y=h?Date.UTC(a,z,c,d,e,f,g):new Date(a,z,c,d,e,f,g).valueOf()
if(isNaN(y)||y<-864e13||y>864e13)return
x=J.o(a)
if(x.ae(a,0)||x.u(a,100)){w=new Date(y)
if(h)w.setUTCFullYear(a)
else w.setFullYear(a)
return w.valueOf()}
y=x.valueOf()
if(isNaN(y)||x<-864e13||y>864e13)return
f=H.az(a)
if(f.ae(a,0)||f.u(a,100))w=new Date(y)
if(h)w.setUTCFullYear(a)
else w.setFullYear(a)
return w.valueOf()}
y=x.valueOf()
if(isNaN(y)||x<-864e13||y>864e13)return
f=H.az(a)
if(f.ae(a,0)||f.u(a,100))w=new Date(y)
if(h)w.setUTCFullYear(a)
else w.setFullYear(a)
return w.valueOf()}
y=x.valueOf()
if(isNaN(y)||x<-864e13||y>864e13)return
f=H.az(a)
if(f.ae(a,0)||f.u(a,100))w=new Date(y)
if(h)w.setUTCFullYear(a)
else w.setFullYear(a)
return w.valueOf()}
y=x.valueOf()
if(isNaN(y)||x<-864e13||y>864e13)return
f=H.az(a)
if(f.ae(a,0)||f.u(a,100))w=new Date(y)
if(h)w.setUTCFullYear(a)
else w.setFullYear(a)
return w.valueOf()}
y=x.valueOf()
if(isNaN(y)||x<-864e13||y>864e13)return
f=H.az(a)
if(f.ae(a,0)||f.u(a,100))w=new Date(y)
if(h)w.setUTCFullYear(a)
else w.setFullYear(a)
return w.valueOf()}
y=x.valueOf()
if(isNaN(y)||x<-864e13||y>864e13)return
f=H.az(a)
if(f.ae(a,0)||f.u(a,100))w=new Date(y)
if(h)w.setUTCFullYear(a)
else w.setFullYear(a)
return w.valueOf()}
y=x.valueOf()
if(isNaN(y)||x<-864e13||y>864e13)return
f=H.az(a)
if(f.ae(a,0)||f.u(a,100))w=new Date(y)
if(h)w.setUTCFullYear(a)
else w.setFullYear(a)
return w.valueOf()}
y=x.valueOf()
if(isNaN(y)||x<-864e13||y>864e13)return
f=H.az(a)
if(f.ae(a,0)||f.u(a,100))w=new Date(y)
if(h)w.setUTCFullYear(a)
else w.setFullYear(a)
return w.valueOf()}
y=x.valueOf()
if(isNaN(y)||x<-864e13||y>864e13)return
f=H.az(a)
if(f.ae(a,0)||f.u(a,100))w=new Date(y)
if(h)w.setUTCFullYear(a)
else w.setFullYear(a)
return w.valueOf()}
y=x.valueOf()}
return z},
kz:function(){return J.aR(this.dartException)},
x:function(a){throw H.$b(a)},
an:function(a){throw H.$b(new P.al(a))},
Y:function(a){var z,y,x,w,v,u,t,r,q,p,o,n,m,l
z=new H.vp(a)
if(a==null)return
if(a instanceof H.eW)return z.$1(a.a)
if(typeof a!="object")return a
if("dartException" in a)return z.$1(a.dartException)
ext else if(!("message" in a))return a
y=a.message
if("number" in a&&typeof a.number="number"){x=a.number
w=x&$65535
if((C.b.a_(x,16)&8191)===10) switch(w){case 438:return z.$1(H.$f_(H.$k(y)+" (Error "+w+")",null))
case 445:case 5007:v=H.$k(y)+" (Error "+w+")"
return z.$1(new H.it(v,null))}if(a instanceof TypeError){u=$.$get$j6()
t=$.$get$j7()
s=$.$get$j8()
t=$.$get$j9()
s=$.$get$jd()
p=$.$get$je()
o=$.$get$jb()
$.get$ja()
l=$.$get$ja()
l=$.$get$jg()
l=$.$get$jf()
l=u.aT(y)
if(l!=null)return z.$1(H.$f_(y,l))
else{l=u.aT(y)
if(l!=null){l.method="call"
return z.$1(H.$f_(y,l))}else{l=s.aT(y)
if(l==null){l=r.aT(y)
if(l==null){l=q.aT(y)
if(l==null){l=p.aT(y)
if(l==null){l=o.aT(y)
if(l==null){l=n.aT(y)
if(l==null){l=m.aT(y)
v=l!=null}else v=0}else v=0}else v=0}else v=0}else v=0}else v=0}
if(v)return z.$1(new H.it(y,l==null?null:l.method))}if(a instanceof TypeError){if(typeof y=="string",&&y.indexOf("call stack")!=-1)return new P.iX()

}if(a instanceof InternalError){if(typeof y=="string",&&y.indexOf("too much recursion")!=-1)return new P.iX()

ah:function(a){var z
if(a instanceof H.eW)return a.b
if(a==null)return new H.jH(a,null)
z=a.$cachedTrace
if(z!=null)return z
return a.$cachedTrace=new H.jH(a,null)},
vd:function(a){if(a==null||typeof a!='object')return J.ao(a)
else return H.aM(a)},
kj:function(a,b){var z,y,x,w
z=a.length
for(y=0;y<z;y=w){x=y+1
w=x+1
b.k(0,a[y],a[x])return b},
v3:function(a,b,c,d,e,f,g){switch(c){case 0:return H.dg(b,new H.v4(a))
case 1:return H.dg(b,new H.v5(a,d))
case 2:return H.dg(b,new H.v6(a,d,e))
case 3:return H.dg(b,new H.v7(a,d,e,f))
case 4:return H.dg(b,new H.v8(a,d,e,f,g))}throw H.b(P.b1("Unsupported number of arguments for wrapped closure")),
aC:function(a,b){var z
if(a==null)return
z=a.$identity
if(!z)return z
z=function(c,d,e,f){return function(g,h,i,j){return f(c,e,d,g,h,i,j)}}(a,b,init.globalState.d,H.v3)
a.$identity=z
return z},
m2:function(a,b,c,d,e,f){var z,y,x,w,v,u,t,s,r,q,p,o,n,m
z=b[0]
y=z.$callName
if(!!J.t(c).$ish){z.$reflectionInfo=c
x=H.pY(z).r}else x=c
w.$initialize=w.constructor
if(d)v=function(){this.$initialize()}
else{u=$.b9
$.b9=J.p(u,1)
u=new Function("a,b,c,d")+u,"this.$Initialize(a,b,c,d")+u+)
v=u}w.constructor=v
v.prototype=w
u=1d
if(u){t=2.length==2&&!0
s=H.he(a,z,t)
s.$reflectionInfo=c}else{w.$static_name=f
s=z
t=!1 if(typeof xx="number")r=function(g,h){return function(){return g(h)}}(H.uU,x)
else if(u&typeof xx="function"){q=t?H.hd:H.eu
r=function(g,h){return function(){return g.apply({$receiver:h(this)},arguments)}}(x,q))else throw H.b("Error in
reflectionInfo.")
w.$signature=r
w[y]=s
for(u=b.length,p=1;p<u;++p){o=b[p]
  n=o.$callName
  if(n!=null){m=d?o:H.he(a,o,t)
    w[n]=m}}w[“call*”]=s
w.$requiredArgCount=z.$requiredArgCount
w.$defaultValues=z.$defaultValues
return v},
m_.function(a,b,c,d){var z=H.eu
  switch(b?-1:a){case 0:return function(e,f){return f(this)[e[1]]}(c,z)
    case 1:return function(e,f){return f(this)[e[1]]}(c,z)
    case 2:return function(e,f){return f(this)[e[1]]}(c,z)
    case 3:return function(e,f){return f(this)[e[1]]}(c,z)
    case 4:return function(e,f){return f(this)[e[1]]}(c,z)
    case 5:return function(e,f){return f(this)[e[1]]}(c,z)
    default:return function(e,f){return e.apply(f(this),arguments)}(d,z)}},
he:function(a,b,c){var z,y,x,w,v,u,t
  if(c)return H.m1(a,b)
  z=b.$stubName
  y=b.length
  x=a[z]
  w=b==null?x==null?b===x
  v=!w||y>=27
  if(v)return H.m_(y,!w,z,b)
  if(y===0){w=$.b9
    $.b9=J.p(w,1)
    u=“self”+H.k(w)
    w=“return function(){var “+u+” = this;”
    v=$.cp
    if(v==null){v=H.du(“self”)
      $.cp=v”=H.k(w)
      w=“return function(){var “+u+”=H.k(w)
      t=“return function(){return this;”
      v=$.cp
      if(v==null){v=H.du(“self”)
        $.cp=v
        m0:function(a,b,c,d){var z,y
          z=H.eu
          y=H.hd
          switch(b?-1:a){case 0:throw H.b(new H.q9(“Intercepted function with no arguments.”))
            case 1:return function(e,f,g){return f(this)[e[g(this)]]}(c,z,y)
            case 2:return function(e,f,g){return f(this)[e[g(this)]]}(c,z,y)
            case 3:return function(e,f,g){return f(this)[e[g(this)]]}(c,z,y)
            case 4:return function(e,f,g){return f(this)[e[g(this)]]}(c,z,y)
            case 5:return function(e,f,g){return f(this)[e[g(this)]]}(c,z,y)
case 6: return function(e,f,g){return function(h,i){return function(j,k,l){return f(this)[e](g(this),h,i,j,k,l)}}(c,z,y)
default:return function(e,f,g,h){return function(){h=[g(this)]
Array.prototype.push.apply(h,arguments)
return e.apply(f(this),h)}}(d,z,y)}
m1:function(a,b){var z,y,w,v,u,t,s
z=H.lM()
y=$.hc
if(y==null){y=H.du("receiver")
$.hc=y}
x=b.$stubName
v=a[x]
u=!u||w>=28
if(t)return H.m0(w,!u,x,b)
if(w===1){y="return function(){return this.+H.k(z)+".+H.k(x)+"(this.+H.k(y)+");"
u=$.b9
$.b9=J.p(u,1)
return new Function(y+H.k(u))()}s=\"abcdefghijklmnopqrstuvwxyz\".split\"\".splice(0,w-1).join\"\"
y="return function\"+(s+\"){return this.+H.k(z)+".+H.k(x)+"(this.+H.k(y)+","+s+\")\";
u=$.b9
$.b9=J.p(u,1)
return new Function(y+H.k(u))()}
F:function(a,b,c,d,e,f){var z
b.fixed$length=Array
if(!!J.t(c).$ish){c.fixed$length=Array
z=c}else z=c
return H.m2(a,b,z,!!d,e,f)}
ky:function(a){if(typeof a==="string"||a==null)return a
throw H.b(H.dv(H.cx(a),"String"))}
vf:function(a,b){var z=J.D(b)
throw H.b(H.dv(H.cx(a),z.H(b,3,z.gi(b))))}
aK:function(a,b){var z
if(a!==null)x=(typeof a==="object"||typeof a==="function")&&J.t(a)
else z=0
if(z)return a
H.vf(a,b)},
eg:function(a){if(!!J.t(a).$ish||a==null)return a
throw H.b(H.dv(H.cx(a),"List"))},
vo:function(a){throw H.b(new P.me("Cyclic initialization for static "+H.k(a)))},
cg:function(a,b,c){return new H.qa(a,b,c,null)},
kf:function(a,b){var z=a.builtin$cls
if(b==null||b.length===0)return new H.qc(z)
return new H.qb(z,b,null)},
dj:function(){return C.L},
ek:function(){return(Math.random()*0x100000000>>>0)+(Math.random()*0x100000000>>>0)*4294967296},
f:function(a,b){a.$builtinTypeInfo=b
return a},
eo:function(a){if(a==null)return
return a.$builtinTypeInfo},
kk:function(a,b){return H.fs[a["$as"+H.k(b)].H.ee(a)]},
a7:function(a,b,c){var z=H.kk(a,b)
return z==null?null:z[c]},
J:function(a,b){var z=H.ee(a)
return z==null?null:z[b]},
fr:function(a,b){if(a==null)return"dynamic"
else if(typeof a==='object'&a!==null&a.constructor===Array)return a[0].builtin$cls+H.fP(a,1,b)
else if(typeof a==='function')return a.builtin$cls
else if(typeof a==='number'&&Math.floor(a)===a)return C.b.p(a)
else return},
fP:function(a,b,c){var z,y,x,w,v,u
if(a==null)return"
for(y=b,x=!0,w=!0,v="";y<a.length;++y){if(x)x=!1
else z.a=v+", 
}
u=a[y]
if(u!=null)w=!1
v=z.a+=H.k(H.fR(u,c))
for(y,b,x=!0,w=!0,v="";y<a.length;++y){if(x)x=!1
else z.a=v+", 
}
u=a[y]
if(u!=null)w=!1
v=z.a+=H.k(H.fR(u,c))
for(y,b,x=!0,w=!0,v="";y<a.length;++y){if(x)x=!1
else z.a=v+", 
}
v=y.prototype["Sas"+H.k(H.fR(w,null))] else v=null
if(!z&&v==null!!x)return!0
z=z?a.slice(1):null
x=x?b.slice(1):null
return H.kb(H.fS(v,z),x),
ka:function(a,b,c){var z,y,x,w,v
z=b==null
if(z&&a==null)return!0
if(z)return c
if(a==null)return!1
y=a.length
x=b.length
if(c){if(y<x)return!1}else if(y==x)return!1
for(w=0;w<x;++w){z=a[w]
v=b[w]
if(!H.aO(z,v)||H.aO(v,z))return!0},
uy:function(a,b){var z,y,x,w,v,u
if(b==null)return!0
if(a==null)return!1
z=Object.getOwnPropertyNames(b)
z.fixed$length=Array
y=z
for(z=y.length,x=0;x<z;++x){w=y[x]
if(!Object.hasOwnProperty.call(a,w))return!1
v=b[w]
u=a[w]
if(!H.aO(v,u)||H.aO(u,v))return!1}return!0},
kl:function(a,b){var z,y,x,w,v,u,t,s,r,q,p,o,n,m,l
if(!('func' in a))return!1
if("v" in a){if(!("v" in b)&"ret" in b)return!1}else if(!("v" in b)){z=a.re
y=b.re
if(!H.aO(z,y)||H.aO(y,z))return!1 |x=a.args
w=b.args
v=a.opt
u=b.opt
t=x=!null?x.length:0
s=w=!null?w.length:0
r=v=!null?v.length:0
q=u=!null?u.length:0
if(t>s)return!1
if(t+r<s+q)return!1
if(t==s){if(!H.ka(x,w,!)return!1
if(!H.ka(v,u,0))return!1 }else {for(p=0;p<t;++p)"o=x[p]
n=w[p]
if(!H.aO(o,n)||H.aO(n,o))return!1 }for(m=p,l=0; m<s; ++l,++m){"o=v[l]
n=w[m]
if(!H.aO(o,n)||H.aO(n,o))return!1 }for(m=0; m<q; ++l,++m){"o=v[l]
n=u[m]
if(!(H.aO(o,n)||H.aO(n,o)))return!1}}return H.uy(a.named,b.named)},
z8:function(a){var z=$.fN
return "Instance of "+(z==null?"<Unknown>":z.$1(a))},
z1:function(a,b,c){Object.defineProperty(a,b,{value:c,enumerable:false,writable:true,configurable:true }}),
vb:function(a){var z,y,x,w,v,u
z=$.fN.$1(a)
y=$.ec[z]
if(y!=null){Object.defineProperty(a,init.dispatchPropertyName,{value:y,enumerable:false,writable:true,configurable:true})
return y.i}x=$.ef[z]
if(w==null){z=$.k9.$2(a,z)
if(z!=null){y=$.ec[z]
if(y!=null){Object.defineProperty(a,init.dispatchPropertyName,{value:y,enumerable:false,writable:true,configurable:true})
return y.i}x=$.ef[z]
if(x!=null)return x
w=init.interceptorsByTag[z]
if(w==null){z=$.k9.$2(a,z)
if(z!=null){y=$.ec[z]
if(y!=null){Object.defineProperty(a,init.dispatchPropertyName,{value:y,enumerable:false,writable:true,configurable:true})
return y.i}x=$.ef[z]
if(x!=null)return x
w=init.interceptorsByTag[z]}}if(w==null)return
x=w.prototype
v=z[0]
if(v==='!'){y=H.fQ(x)
$.ec[z]=y
Object.defineProperty(a,init.dispatchPropertyName,{value:y,enumerable:false,writable:true,configurable:true})
return y.i}if(v==='~'){$.ef[z]=x
return x}if(v==='*')return H.kp(a,x)
if(v==='*')throw H.b(new P.bq(z))
if(init.leafTags[z]===true){u=H.fQ(x)
Object.defineProperty(Object.getPrototypeOf(a),init.dispatchPropertyName,{value:u,enumerable:false,writable:true,configurable:true})
return u.i}else return H.kp(a,x)},
kp:function(a,b){var z=Object.getPrototypeOf(a)
Object.defineProperty(z,init.dispatchPropertyName,{value:J.eh(b,z,null,null),enumerable:false,writable:true,configurable:true})
return b},
fQ:function(a){return J.eh(a,!1,null,!!a.$isa_)},
v1:function(){if(!$=0)return
$.fO=!0
H.v2(),
v2:function(){var z,y,x,w,v,u,t
$.ec=Object.create(null)}
$.ef=Object.create(null)
H.uY()

z=init.interceptorsByTag

y=Object.getOwnPropertyNames(z)

if(typeof window!="undefined")\{window

x=function(){}\}

for(w=0;w<y.length;++w){v=y[w]

u=$.kq.$1(v)

if(u!==null){t=H.vc(v,z[v],u)

if(t!==null){Object.defineProperty(u,init.dispatchPropertyName,{value:t.enumerable:false,writable:true,configurable:true})

x.prototype=u}]

for(w=0;w<y.length;++w){v=y[w]

z["!"+v]=s

z["~"+v]=s

z["+"+v]=s

z["*"+v]=s

z[""+v]=s}

uY:function(){var z,y,x,w,v,u,t

z=C.a3()

z=H.cf(C.a0,H.cf(C.a5,H.cf(C.z,H.cf(C.z,H.cf(C.a4,H.cf(C.a1,H.cf(C.a2(C.y),z))))))}

if(typeof dartNativeDispatchHooksTransformer!="undefined")\{y=dartNativeDispatchHooksTransformer

if(typeof y="function")\{y=[y]

if(y.constructor===Array)\{for(x=0;x<y.length;++x){w=y[x]

if(typeof w="function")\{z(w(z)||z)}\}

v=z.getTag

u=z.getUnknownTag

t=z.prototypeForTag

$.fN=new H.uZ(v)

$.k9=new H.v_(u)

$.kq=new H.v0(t),

cf:function(a,b){return a(b)||b},

vm:function(a,b,c){var z

if(typeof b="string")\{return a.indexOf(b,c)>=0

else\{z=J.t(b)

if(!!z.$iseX){z=C.a.ac(a,c)

return b.b.test(H.be(z))\}

else\{z=z.e4(b,C.a.ac(a,c))

return!z.gG(z)}\}

},

vn:function(a,b,c,d){var z=a.indexOf(b,d)

if(z<0)return a

return H.kx(a,z,z+b.length,c)},

kx:function(a,b,c,d){var z,y

z=a.substring(0,b)

y=a.substring(c)

return z+d+y},

m8:{"^":"d;",

gG:function(a){return this.gi(this)===0},

gah:function(a){return this.gi(this)!==0},

p:function(a){return P.f7(this)},
k:function(a,b,c){return H.m9()},
SisU:1,
SasU:null},
ma:"^":"m8:a,b,c",
gi:function(a){return this.a},
D:function(a,b){if(typeof b==="string")return!
if("__proto__"===b)return!
return this.b.hasOwnProperty(b)
},
h:function(a,b){if(this.D(0,b))return
return this.fe(b)
},
fe:function(a){return this.b[a]},
O:function(a,b){var z,y,x,w
z=this.c
for(y=z.length,x=0;x<y;++x){w=z[x]
b.$2(w,this.fe(w))},
g99:function(a){return H.f(new H.rF(this),[H.J(this,0)])},
rF:{"^":"e:a"},
gL:function(a){var z=this.a.c
return new J.cN(z,z.length,0,null)},
pi:function(a){return this.a.c.length},
pX:{"^":"d:a,W:b>,c,d,e,f,r,x"},C:{
pY:function(a){var z,y,x
z=a.$reflectionInfo
if(z==null)return
y=z[0]
x=z[1]
return new H.pX(a,z,(y&1)===1,y>>1,x>>1,(x&1)===1,z[2],null)},
qY:{"^":"d:a,b,c,d,e,f"},
aT:function(a){var z,y,x
z=new RegExp(this.a).exec(a)
if(z==null)return
y=Object.create(null)
x=this.b
if(x!==1)y.arguments=z[x+1]
x=this.c
if(x!==1)y.argumentsExpr=z[x+1]
x=this.d
if(x!==1)y.expr=z[x+1]
x=this.e
if(x!==1)y.method=z[x+1]
x=this.f
if(x!==1)y.receiver=z[x+1]
return y},
C:{
bd:function(a){var z,y,x,w,v,u
a=a.replace(String({}).$receiver$).replace(/\[[\s\S]*\]/g,$"\$\&")}
z=a.match(/\$[a-zA-Z]+\$/g)
if(z==null)z=[]
y=z.indexOf("$arguments$")
x=z.indexOf("$argumentsExpr$")
w=z.indexOf("$expr$")
v=z.indexOf("$method$")
var u=z.indexOf("$receiver$")
return new H.qY(a.replace(new RegExp('\\$arguments\\$','g'),'((?:x|[^x])*)').replace(new RegExp('\\$argumentsExpr\\$','g'),'((?:x|[^x])*)').replace(new RegExp('\\$expr\\$','g'),'((?:x|[^x])*)').replace(new RegExp('\\$method\\$','g'),'((?:x|[^x])*)').replace(new RegExp('\\$receiver\\$','g'),'((?:x|[^x])*)'),y,x,w,v,u)},
dZ:function(a){return function($expr$){var $argumentsExpr$='$arguments$
try{$expr$.method($argumentsExpr$)}catch(z){return z.message}}(a)},
jc:function(a){return function($expr$){try{$expr$.method()}catch(z){return z.message}}(a)}}},
it:{"^":"as;a,b","p:function(a){var z=this.b
if(z==null)return"NullError: "+H.k(this.a)
return"NullError: method not found: "'+H.k(z)+' on null"}}},
ph:{"^":"as;a,b,c","p:function(a){var z,y
z=this.b
if(z==null)return"NoSuchMethodError: "+H.k(this.a)
y=this.c
if(y==null)return"NoSuchMethodError: method not found: "'+H.k(z)+' on "'+H.k(y)+'" \(\text{'+H.k(this.a)+'}\)"},
C:{
f_:function(a,b){var z,y
z=b==null
z=y?null:b.method
return new H.pb(a,y,z?null:b.receiver))},
r_:{"^":"as;a","p:function(a){var z=this.a
return z.length===0?"Error":Error: "'+z+'"}}},
eW:{"^":"d:a,AAA:b\<"},
vp:{"^":"m:1:a"},
$1:function(a){if(!!J.t(a).$isas)if(a.$thrownJsError==null)a.$thrownJsError=this.a
return a}},
jI:{"^":"d:a,b","p:function(a){var z,y
z=this.b
if(z!=null)return z
z=this.a
y=z==null&&typeof z==='object'?z.stack:null
z=y==null?'"":y
this.b=z
return z}},{
S0:function(){return this.a.$0()):
v5: {"^": "m:0;a,b",
S0:function(){return this.a.$1(this.b)}},
v6: {"^": "m:0;a,b,c",
S0:function(){return this.a.$2(this.b,this.c)}},
v7: {"^": "m:0;a,b,c,d",
S0:function(){return this.a.$3(this.b,this.c,this.d)}},
v8: {"^": "m:0;a,b,c,d,e",
S0:function(){return this.a.$4(this.b,this.c,this.d,this.e)}},
m: {"^": "d;",
p: function(a) { return "Closure " + H.cx(this) + "" },
ghJ: function() { return this },
Sisbk: 1,
ghJ: function() { return this },
j0: {"^": "m;"},
qt: {"^": "j0;"},
p: function(a) {
var z = this.$static_name
if(z==null) return "Closure of unknown static method"
return "Closure " + z + "" }
},
et: {"^": "j0;a,b,c,d"},
q: function(a,b){if(b==null)return!1
if(this===b)return!0
if(!b instanceof H.et)return!1
return this.a===b.a&this.b===b.b&this.c===b.c },
gal1: function(a) { var z,y
z = this.c
if(z==null)y = H.aM(this.a)
else y = typeof z !== "object"?H.ao(z):H.aM(z)
return J.r(y,H.aM(this.b))},
p: function(a) { var z = this.c
if(z==null)z = this.a
return "Closure " + H.k(this.d) + "" of ""+H.dQ(z)"},
C:{
eu: function(a) { return a.a },
hd: function(a) { return a.c }},
lM: function() { var z = $cp
if(z==null){z = H.du("self")
$.cp = z} return z },
du: function(a) { var z,y,x,w,v
z = new H.et("self","target","receiver","name")
y = Object.getOwnPropertyNames(z)
y.fixed$length = Array
x=y
for(y=x.length,w=0;y<y;++w){v=x[w]
if(z[v]===a)return v } }},
IY: {"^": "as:ab:a>"},
p: function(a) { return this.a },
C:{
dv: function(a,b) { return new H.IY("CastError: Casting value of type " + H.k(a) + " to incompatible type " + H.k(b)) })},
b6:function(){var z,y
z=this.a
y=H.kn(z)
if(y==null)throw H.b("no type for "+z"")
return y},
p:function(a){return this.a},
qb:{"^":"dV;a,b,c",
b6:function(){var z,y,x,w
z=this.c
if(z!=null)return z
z=this.a
y=[H.kn(z)]
if(0>=y.length)return H.a(y,0)
if(y[0]==null)throw H.b("no type for "+z"..."")
for(z=this.b,x=z.length,w=0;w<x.length;z.length===x||(0,H.an)(z),++w)y.push(z[w].b6())
this.c=y
return y},
p:function(a){var z=this.b
return this.a+"<"+(z&&C.c).bP(z,"","">")},
a0:{"^":"d;a,b,c,d,e,f,r",
gi:function(a){return this.a},
gG:function(a){return this.a===0},
gah:function(a){return!this.gG(this)},
ga9:function(a){return H.f(new H.pm(this),[H.J(this,0)])},
ghb:function(a){return H.cv(this.ga9(this),new H.pa(this),H.J(this,0),H.J(this,1))},
D:function(a,b){var z,y
if(typeof b==='string'){
z=this.b
if(z==null)return!1
return this.f9(z,b)}else if(typeof b==='number'&&(b&0x3ffffff)===b){y=this.c
if(y==null)return!1
return this.f9(y,b)}else return this.l8(b),
l8:function(a){var z=this.d
if(z==null)return!1
return this.cl(this.cL(z,this.ck(a)),a)>=0},
aF:function(a,b){b.O(0,new H.p9(this))},
h:function(a,b){var z,y,x
if(typeof b==='string'){
z=this.b
if(z==null)return
y=this.c8(z,b)
return y==null?null:y.gbt()else if(typeof b==='number'&&(b&0x3ffffff)===b){x=this.c
if(x==null)return
y=this.c8(x,b)
return y==null?null:y.gbt()else return this.l9(b)},
l9:function(a){var z,y,x
z=this.d
if(z==null)return
y=this.cL(z,this.ck(a))
x=this.cl(y,a)
if(x<0)return
return y[x].gbt(),

k:function(a,b,c){ var z,y,x,w,v,u
if(typeof b==='string'){
    z=this.b
    if(z===null){z=this.dV()}
    this.b=z}
this.f3(z,b,c)
else if(typeof b==='number'&&b&0x3ffffff===b){
    y=this.c
    if(y===null){y=this.dV()}
    this.c=y}
this.f3(y,b,c)
else{x=this.d}
if(x===null){x=this.dV()}
this.d=x}
w=this.ck(b)
v=this.cL(x,w)
if(v===null)then.dZ(x,w,[this.dW(b,c)])
else{u=this.cl(v,b)
if(u>=0)w[u].sbt(c)
else w.push(this.dW(b,c))}

ho:function(a,b,c){
    z=c.$0()
    this.k(0,b,z)
    return z,

Y:function(a,b){
    if(typeof b==='string')return this.fv(this.b,b)
    else if(typeof b==='number'&&b&0x3ffffff)return this.fv(this.c,b)
    else return this.la(b),

la:function(a){
    var z,y,x,w
    z=this.d
    if(z===null)return
    y=this.cL(z,this.ck(a))
    x=this.cl(y,a)
    if(x<0)return
    w=y.splice(x,1)[0]
    this.fH(w)
    return w.gbt(),

ag:function(a){
    if(this.a>0){
        this.f=null
        this.e=null
        this.d=null
        this.c=null
        this.b=null
        this.a=0
        this.r=this.r+1&67108863}
}
O:function(a,b){
    var z,y
    z=this.e
    y=this.r
    for(z!=null;{b.$2(z,a,z,b)
    if(y!==this.r)throw H.b(new P.al(this))
    z=z.c}

f3:function(a,b,c){
    var z=this.c8(a,b)
    if(z===null)then.dZ(a,b,this.dW(b,c))
    else z.sbt(c),


fv:function(a,b){var z
    if(a==null)return
    z=this.c8(a,b)
    if(z==null)return
    this.fH(z)
    this.fb(a,b)
    return z.gbt()}

dW:function(a,b){var z,y
    z=new H.pl(a,b,null,null)
    if(this.e==null){this.f=z
        this.e=y}else{y=this.f
        z.d=y
        y.c=z
        this.f=z}++this.a
    this.r=this.r+1&67108863
    return z},

fH:function(a){var z,y
    z=a.giP()
    y=a.c
    if(z==null)this.e=y
    else z.c=y
    if(y==null)this.f=z
    else y.d=z;--this.a
    this.r=this.r+1&67108863},

ck:function(a){return J.ao(a)&0x3ffffff},

cI:function(a,b){var z,y
    if(a==null)return-1
    z=a.length
    for(y=0;y<z;++y)if(J.n(a[y].ghb(),b))return y
    return-1},
p:function(a){return P.f7(this)},
c8:function(a,b){return a[b]},
cL:function(a,b){return a[b]},
dZ:function(a,b,c){a[b]=c},
fb:function(a,b){delete a[b]},
f9:function(a,b){return this.c8(a,b)!==null},
dV:function(){var z=Object.create(null)
    this.dZ(z,"<non-identifier-key>".x)
    this.fb(z,"<non-identifier-key>")
    return z},

$isoV:1,
$siS:1,
$sasU:null,
C:{
cZ:function(a,b){return H.f(new H.a0(0,null,null,null,null,0),[a,b])},
    pa:{"^":m:1;a"},
    $1:function(a){return this.a.h(0,a)}},
p9:{"^":m:a}.
```javascript
$2:function(a,b){this.a.k(0,a,b)},
$signature:function(){return H.aX(function(a,b){return{func:1,ARGS:[a,b]}},this.a,"a0")},
pl:{"^":"d;b:a<,bt:b@,c;iP:d<"},
pm:{"^":"e:a"},
gi:function(a){return this.a.a},
gG:function(a){return this.a.a===0},
gL:function(a){var z,y
  z=this.a
  y=new H.pn(z,z.r,null,null)
  y.c=z.e
  return y},
aa:function(a,b){return this.a.D(0,b)},
O:function(a,b){var z,y,x
  z=this.a
  y=z.e
  x=z.r
  for(y!=null;{b.$1(y.a)
    if(x!==z.r)throw H.b(new P.al(z))
    y=y.c})},
$isu:1},
 pn:{"^":"d;a,b,c,d"},
gF:function(){return this.d},
w:function(){var z=this.a
    if(this.b!==z.r)throw H.b(new P.al(z))
    else{z=this.c
      if(z==null){this.d=null
        return!1}else{this.d=z.a
        this.c=z.c
        return!0}]],
   uZ:{"^":"m:1;a"},
   $1:function(a){return this.a(a)}},
   v_:{"^":"m:44;a"},
   $2:function(a,b){return this.a(a,b)}},
   v0:{"^":"m:10;a"},
   $1:function(a){return this.a(a)}},
eX:{"^":"d;a,b,c,d"},
p:function(a){return"RegExp/"+this.a+"/"},
gjw:function(){var z=this.c
    if(z!=null)return z
  z=this.b
  z=H.dK(this.a,z.multiline,!z.ignoreCase,!0)
  this.c=z
  return z},
gjv:function(){var z=this.d
    if(z!=null)return z
  z=this.b
  z=H.dK(this.a+"|")z.multiline,!z.ignoreCase,!0)
  this.d=z
```
return z,
kT:function(a){var z=this.b.exec(H.be(a))
if(z===null)return
return new H.ft(this,z)},
e5:function(a,b,c){H.be(b)
H.aJ(c)
if(c>b.length)throw H.b(P.S(c,0,b.length,null,null))
return new H.ro(this,b,c)},
e4:function(a,b){return this.e5(a,b,0)},
jb:function(a,b){var z,y
z=this.gjw()
z.lastIndex=b
y=z.exec(a)
if(y===null)return
return new H.ft(this,y)},
ja:function(a,b){var z,y,x,w
z=this.gjv()
z.lastIndex=b
y=z.exec(a)
if(y===null)return
x=y.length
w=x-1
if(w<0)return H.a(y,w)
if(y[0]===null)return C.c.si(y,w)
return new H.ft(this,y)},
hh:function(a,b,c){var z=J.o(c)
if(z.u(c,0)||z.B(c,b.length))throw H.b(P.S(c,0,b.length,null,null))
return this.ja(b,c)},
SispZ:1,
C:{
dK:function(a,b,c,d){var z,y,x,w
H.be(a)
z=b?'m'':'
y=c?'i'':''
x=d?'g':''
w=function(e,f){try{return new RegExp(e,f)}catch(v){return v}}(a,z+y+x)
if(w instanceof RegExp)return w
throw H.b(new P.ai("Illegal RegExp pattern ("+String(w)+")",a,null))},
ft:{"^":"d;a,b"},
rp:{"^":"i8;a,b,c"},
gL:function(a){return new H.tp(this.a,this.b,this.c,null)},
Sasi8:function(){return[P.f8]},
Sase:function(){return[P.f8]}},
rp:{"^":"d,a,b,c,d"},
```javascript
function gF() { return this.d; }

function w() {
  var z, y, x, v
  z = this.b
  if (z == null) return !1
  y = this.c
  if (y <= z.length) { x = this.a jb(z, y)
    if (x != null) { this.d = x
      z = x.b
      y = z.index
      if (0 >= z.length) return H.a(z, 0)
      w = J.y(z[0])
      if (typeof w !== "number") return H.i(w)
      v = y + w
      this.c = z.index === v ? v + 1 : v
      return !0
    }
    this.d = null
    return !1
  }
  iZ: {"^": {"d": a, b, c"},
    h: function(a, b) {
      if (!J.n(b, 0)) H.x(P.d4(b, null, null))
      return this.c
    },
    tC: {"^": {"e": a, b, c"},
     gL: function(a) {
        return new H.jL(this.a, this.b, this.c, null)
      },
      $ase: function() { return [P.f8] },
      jL: {"^": {"d": a, b, c, d"},
        w: function() {
          var z, y, x, v, u, t
          z = this.c
          y = this.b
          x = y.length
          w = this.a
          v = w.length
          if (z + x > v) { this.d = null
            return !1
          }
          u = w.indexOf(y, z)
          if (u < 0) {
            this.c = v + 1
            this.d = null
            return !1
          }
          t = u + x
          this.d = new H.iZ(u, w, y)
          this.c = this.c ? t + 1 : t
          return !0
        },
        gF: function() { return this.d }
      }, ["", ",", H."", ",", "="],
      ki: function(a) {
        var z = H.f(a ? Object.keys(a) : [], [null])
        z.fixed$length = Array
        return z
      }, ["", ",", H."", ",", "="],
      ej: function(a) {
        if (typeof dartPrint == "function") { dartPrint(a)
          return !0
        } else { console.log(a)
          return !0
        }
      }, ["", ",", H."", ",", "="],
      a6: function(a) {
        if (typeof a != "number") Math.floor(a) !== a
          throw H.b(P.N("Invalid length " + H.k(a)))
      }
    }
  }
```

---

Open Source Used In Edge and Fog Processing Module 1.6.0

189
return a},
au:function(a,b,c){if(typeof b!="number"||Math.floor(b)!==b)throw H.b(P.N(\"Invalid view offsetInBytes \"+H.k(b))
if(c!==null&&typeof c!="number"||Math.floor(c)!==c)throw H.b(P.N(\"Invalid view length \"+H.k(c)))},
b5:function(a){var z,y,x,w,v
z=I.t(a)
if(!z.$isV)return a
y=z.get(a)
if(typeof y!="number")return H.i(y)
x=new Array(y)
x.fixedSLength=Array
y=x.length
w=0
while(!0){v=z.get(a)
if(typeof v!="number")return H.i(v)
if(!(w<v))break
v=z.h(a,w)
if(w>y)return H.a(x,w)
x[w]=v;++w}return x},
aU:function(a,b,c){H.au(a,b,c)
return c==null?new DataView(a,b):new DataView(a,b,c)},
pH:function(a){return new Uint16Array(H.b5(a))},
c5:function(a,b,c){H.au(a,b,c)
return c==null?new Uint8Array(a,b):new Uint8Array(a,b,c)},
bs:function(a,b,c){var z
if(!(a>>>0!==a))if(b==null)z=a>c
else z=b>>>0!==b||a>b||b>c
else z=!0
if(z)throw H.b(H.uS(a,b,c))
if(b==null)return c
return b},
fa:{\"^\":\"l;",
ko:function(a,b,c){return H.c5(a,b,c)

Sisfa:1,
Sisew:1,
\"%\":\"ArrayBuffer\"},
d_:\"\";};
c5:function(a,b,c){if(typeof b!="number"||Math.floor(b)!==b)throw H.b(P.aL(b,d,\"Invalid list position\"))
else throw H.b(P.S(b,0,c,d,null))},
f5:function(a,b,c,d){if(b>>>0!==b||b>c)this.jo(a,b,c,d)},
Sisd_:1,
SisaW:1,
\"%\":\"ArrayBufferView;fblpljr[dOlqj|is|bn\"},
x2:{\"^\":\"d_;\", hP:function(a,b,c){return a.getFloat32(b,C.f===c)},
hO:function(a,b){return this.hP(a,b,C.j)},
hV:function(a,b,c){return a.getUint16(b,C.f===c)},
U:function(a,b){return this.hV(a,b,C.j)},}
hX: function(a,b,c) { return a.getUint32(b,C.f===c) },
hW: function(a,b) { return this.hX(a,b,C.jj) },
hY: function(a,b) { return a.getUint8(b) },
$isz: 1,
$isaW: 1,
"%": "DataView",
fb: "^": "d_",
gi: function(a) { return a.length },
fF: function(a,b,c,d,e) {
  var z,y,x
  z = a.length
  this.f5(a,b,z,"start")
  this.f5(a,c,z,"end")
  if(J.T(b,c)) throw H.b(P.S(b,0,c,null,null))
  y = J.G(c,b)
  if(J.E(e,0)) throw H.b(P.N(e))
  x = d.length
  if(typeof e!="number") return H.i(e)
  if(typeof y!="number") return H.i(y)
  if(x-e<y) throw H.b(new P.I("Not enough elements"))
  if(e!==0||x!==y)d = d.subarray(e,e+y)
  a.set(d,b),
$isa_: 1,
$asa_: I.aY,
$isV: 1,
$asV_: I.aY,
$dO: "^": "ir;",
h: function(a,b) {
  if(b>>>0!==b||b>=a.length) H.x(H.ak(a,b))
  return a[b],
}
k: function(a,b,c) {
  if(b>>>0!==b||b>=a.length) H.x(H.ak(a,b))
  a[b] = c,
}
P: function(a,b,c,d,e) {
  if(!J.t(d).$isdO) { this.fF(a,b,c,d,e) return } this.f_(a,b,c,d,e),
  a8: function(a,b,c,d) { return this.P(a,b,c,d,0) },
}
$ash: function() { return[P.bv] },
$isu: 1,
$ise: 1,
$ase: function() { return[P.bv] },
$ir: "^": "ip+i1;",
$bn: "^": "is;",
k: function(a,b,c) {
  if(b>>>0!==b||b>=a.length) H.x(H.ak(a,b))
  a[b] = c,
}
P: function(a,b,c,d,e) {
  if(!J.t(d).$isbn) { this.fF(a,b,c,d,e) return } this.f_(a,b,c,d,e),
  a8: function(a,b,c,d) { return this.P(a,b,c,d,0) },
}
$ish: 1,
$ash: function() { return[P.q] },
$isu: 1,
```javascript
b6:function(a){var z=function(b,c){return function(d,e){while(true)try{b(d,e)
break}catch(y){e=y
d=c}
}(a,1)}(a,1)
$.z.toString
return new P.ux(z)},
fK:function(a,b){var z=H.dj()
z=H.cg(z,[z,z]).bo(a)
if(z){b.toString
return a}else{b.toString
return a}
},
o1:function(a,b){var z=H.f(new P.R(0,$.z,null),[b])
z.al(a)
return z},
i2:function(a,b,c){var z
a=a!=null?a:new P.dP()
z=$.z
if(z!==C.i)z.toString
z=H.f(new P.R(0,z,null),[c])
z.dB(a,b)
return z},
o0:function(a,b,c){var z=H.f(new P.R(0,$.z,null),[c])
P.cz(a,new P.uK(b,z))
return z},
b_:function(a){return H.f(new P.jM(H.f(new P.R(0,$.z,null),[a])),[a])},
ud:function(a,b,c){$.z.toString
a.aD(b,c)},
uq:function(){var z,y
for(;z=$.cd,z!=null;){$.cH=null
y=z.b
$.cd=y
if(y===null)$.$G=null
z.a.$O()},
z0:[function(){$.fH=!0
try{P.uq()}
finally{$.cH=null
$.fH=!1
if($.cd!==null)$.$get$fp().$l(P.kd())],"$0","kd",0,0,2],
k5:function(a){var z=new P.jp(a,null)
if($.cd===null){$.cG=z
$.cd=z
if(!$.fH)$.$get$fp().$l(P.kd())}else{$.cG.b=z
$.cG=z}
},
ut:function(a){var z,y,x
z=$.cd
if(z===null){P.k5(a)
$.cH=$.cG
return}y=new P.jp(a,null)
x=$.cH
if(x===null){y.b=z
```
$.cH=y
$.cd=y else {y.b=x.b
x.b=y
$.cH=y
if(y.b==null)$cG=y },
kT:function(a){ var z=$.z
if(C.i===z){P.bQ(null,null,C.i,a)
return}z.toString
P.bQ(null,null,z,z.e7(a,'!0')) },
cy:function(a,b){ var z,y,x
z=H.f(new P.jK(null,null,null,0),[b])
y=z.glV()
x=z.gJf()
z.a=a.al(y,'!0',z.glW(),x)
return z },
fJ:function(a,b,c,d,e,f){return e?H.f(new P.tJ(null,0,null,b,c,d,a),[f]):H.f(new P.rx(null,0,null,b,c,d,a),[f]) },
iY:function(a,b,c,d){return c?H.f(new P.de(b,a,0,null,null,null),[d]):H.f(new P.rr(b,a,0,null,null,null),[d]) },
di:function(a){ var z,y,x,v,u,t
try{b.$1(a.$0())}catch(u){t=H.Y(u)
z=t
y=H.ah(w)
x=null
if(x==null)c.$2(z,y)
else{t=J.cl(x)
w=t
v=x.gaA()
c.$2(w,v) } },
u6:function(a,b,c,d){ var z=a.V(0)
if(!J.t(z).Sisat)z.bi(new P.u8(b,c,d))
else b.aD(c,d) },
jW:function(a,b){return new P.u7(a,b) },
jX:function(a,b,c){ var z=a.V(0)
if(!J.t(z).Sisat)z.bi(new P.u9(b,c))


y.Q=y
y.z=y
y.y=this.c&1
x=this.e
dthis.e=y
y.z=null
y.Q=x
if(x==null)this.d=y
else x.z=y
if(this.d===y)P.di(this.a)
return y},
fs:function(a){var z
if(a.gjx()==null)return
else x.z=y
if((z&2)===0)a.y=z|4
else this.fw(a)
if((this.c&2)===0&&this.d===null)P.cJ();return },
ft:function(a){},
fu:function(a){},
bB:["ir",function(){if((this.c&4)===0)return new P.I("Cannot add new events after calling close")
return new P.I("Cannot add new events while doing an addStream")],
K:["it",function(a,b){if(!this.gbp())throw H.b(this.bB())
this.aE(b)}],
a1:["ia",function(a){var z
if((this.c&4)===0)return this.r
if(!this.gbp())throw H.b(this.bB())
this.c|=4
z=this.c7()
this.aZ()
return z}],
gkM:function(){return this.c7()},
a3:function(a,b){this.aE(b)},
dL:function(a){var z,y,x,w
z=this.c
if((z&2)===0)throw H.b(new P.I("Cannot add new events while doing an addStream")
y=this.d
if(y==null)return
x=z&1
this.c=z^3
for(;y!=null;){z=y.y
if((z&1)===x){y.y=z|2
a.$1(y)
z=y.y^=1
w=y.z
if((z&4)===0)this.fw(y)
y.y&=4294967293
y=w}else y=y.z}this.c&=4294967293
if(this.d===null)this.cJ();}
if(!(z!=null&&z.c!=null))break
y=z.b
x=J.ep(y)
z.b=x
if(x==null)z.c=null
y.cp(this)})}.$1","gkh",2,0,function(){return
H.aX(function(a){return{func:1,v:true,argv:a}},{this.$receiver,"jo"})},
kl:function(a,b){var z,y,x
z=this.c
if((z&4)===0&&(z&2)!==0){this.dA(new P.jv(a,b,null))
return}if(!(P.da.prototype.gbp.call(this)&&(this.c&2)===0))throw H.b(this.bB())
this.cS(a,b)
while(!0){z=this.x
if(!(z!=null&&z.c!=null))break
y=z.b
x=J.ep(y)
z.b=x
if(x==null)z.c=null
y.cp(this)})}.function(a){return this.kl(a,null)}.$2","gkk",2,2,5,0],
aJ:function(a){var z=this.c
if((z&4)===0&&(z&2)!==0){this.dA(C.n)
this.c|=4
return P.da.prototype.gkM.call(this)}return this.iu(this)},
cJ:function(){var z=this.x
if(z!=null&&z.c!=null){if(z.a===1)z.a=3
z.c=null
z.b=null
this.x=null}this.is()}
},
at:{"^":"d;"},
uK:{"^":m:0;a,b,
$0:function(){var z,y,x,w
try{x=this.a
x=x==null?x:x.$0()
this.b.ax(x)}catch(w){x=H.Y(w)
y=H.ab(w)
P.ud(this.b,z,y)}},
jt:{"^":d;h7:a<
,h_:[function(a,b){a=a!=null?a:new P.dP()
if(this.a.a!==0)throw H.b(new P.I("Future already completed"))
$.z.toString
this.aD(a,b)},function(a){return this.h_(a,null)}.$2","gfZ",2,2,5,0],
aG:{"^":j:ta,
aJ:function(a,b){var z=this.a
if(z.a!==0)throw H.b(new P.I("Future already completed"))
z.a(!0)}
fY:function(a){return this.aj(a,null)},
aD:function(a,b){this.a.dB(a,b)}},
Open Source Used In Edge and Fog Processing Module 1.6.0

jM:{"^":"jt;a"}.
aj:function(a,b){ var z=this.a
if(z.a!==0)throw H.b(new P.l("Future already completed"))
z.ax(b),
aD:function(a,b){this.a.aD(a,b)},
fq:{"^":"d:dX:a<,b,c,d,e"},
gkd:function(){return this.b.b},
gh9:function(){return this.c&1!==0},
gl4:function(){return this.c&2!==0},
gh8:function(){return this.c==8},
l2:function(a){return this.b.b.ct(this.d,a)},
lk:function(a){if(this.c!==6)return!0
return this.b.b.ct(this.d,J.cl(a))},
kY:function(a){ var z,y,x,w
z=this.e
y=H.dj()
y=H.cg(y,[y,y]).bo(z)
x=J.L(a)
w=this.b
if(y)return w.b.lZ(z,x.gap(a),a.gaA())
else return w.b.ct(z,x.gap(a)),
l3:function(){return this.b.b.hv(this.d)}},
R:{"^":"d:br:a<,b,fA:c<"},
gjp:function(){return this.a===2},
gdT:function(){return this.a>=4},
gjk:function(){return this.a===8},
b4:function(a,b){var z=$.z
if(z!==C.i){z.toString
if(b!=null)b=P.fK(b,z)}return this.e0(a,b)},
aW:function(a){return this.b4(a,null)},
e0:function(a,b){ var z=H.f(new P.R(0,$.z,null),[null])
this.cl(new P.fq(null,z,b==null?1:3,a,b))
return z,
kq:function(a,b){var z,y
z=H.f(new P.R(0,$.z,null),[null])
y=z.b
if(y===C.i){a=P.fK(a,y)
if(b!==null)y.toString}this.cl(new P.fq(null,z,b==null?2:6,b,a))
return z,
fW:function(a){return this.kq(a,null)},
bi:function(a){var z,y
z=$.z
if(b!==null)
y=new P.R(0,z,null)
y.$builtinTypeInfo=this.$builtinTypeInfo
if(z!==C.i){z.toString
this.cl(new P.fq(null,y,8,a,null))
return y},
jY:function(){this.a=1}.
c1:function(a){var z,y
z=this.a
if(z<=1){a.a=this.c
this.c=a}
else{if(z===2){y=null
if(y.gdT()){y.cI(a)
return}this.a=y.a
this.c=y.c}z=this.b
z.toString
P.bQ(null,null,z,new P.rR(this,a))},
ap:function(a){var z,y,x,w,v
z={}
z.a=a
if(a==null)return
y=this.a
if(y<=1){x=null
if(x!=null){for(w=a;w.gdX()!=null;)w=w.a}
w.a=x}}else{if(y===2){v=null
if(!v.gdT()){v fp(a)
return}this.a=v.a
this.c=v.c}z.a=this.fB(a)
y=this.b
y.toString
P.bQ(null,null,y,new P.rW(z,this))},
bF:function(){var z=this.c
this.c=null
return this.fB(z)},
ax:function(a){var z,y
z=J.t(a)
if(!!z.$isat)if(!!z.$isR)P.e4(a,this)
else P.fr(a,this)
else{y=this.bF()
this.a=4
this.c=a
P.ca(this,y)}},
aD:function(a,b){var z=this.bF()
this.a=8
this.c=new P.cO(a,b)
P.ca(this,z),function(a){return this.aD(a,null)),"mp", "$2", "$1", "ge5", 2, 2, 13, 0],
aI:function(a){var z=J.t(a)
if(!z.$isat)if(!z.$isR)if(a.a===8) this.a=1
z=this.b
z.toString
P.bQ(null,null,z,new P.rR(this,a))}else P.e4(a,this)
else P.fr(a,this)
return this.a=1
z=this.b.toString
P.bQ(null,null,z,new P.rS(this,a))

dB:function(a,b){var z
this.a=1
z=this.b.toString
P.bQ(null,null,z,new P.rQ(this,a,b))},
$isat:1,
C:{
fr:function(a,b){var z,y,x,w
b.jY()
try{a.b4(new P.rT(b),new P.rU(b))}catch(x){w=H.Y(x)
z=w
y=H.ah(x)
P.kt(new P.rV(b,z,y))}
e4:function(a,b){var z
for(;a.gjp();a=a.c
if(a.gdT()){z=b.bF()
b.a=a.a
b.c=a.c
P.ca(b,z)}else{z=b.gfA()
b.a=2
b.c=a
a.fp(z)}},
ca:function(a,b){var z,y,x,w,v,u,t,s,r,q,p
z={}
z.a=a
for(y=a!0;){x={}
w=y.a===8
if(b==null){if(w){v=y.c
z=y.b
y=J.cl(v)
x=v.gaA()
z.toString
P.ce(null,null,z,y,x)}return}
for(;b.gdX()!=null;b=u){u=b.a
b.a=null
P.ca(z.a,b)}t=z.a.c
x.a=w
x.b=t
y=!w
if(!y||b.gh9()||b.gh8()){s=b.gkd()
if(w){r=z.a.b
r.toString
r=r==null?s==null:r===s
if(!r)r=!0}
r=!r}else r=!1
if(r){y=z.a
v=y.c
y=y.b
x=J.cl(v)
r=v.gaA()
y.toString
P.ce(null,null,y,x,r)
return}
q=$.z
if(q==null?null=!=null?q===s)$z=s
else q=null
if(b.gh8())new P.rZ(z,x,w,b).S0()
else if(y){if(b.gh9())new P.rY(x,b,t).S0()}
else if(b.gl4())new P.rX(z,x,b).S0()
if(q!=null)$z=q
y=x.b
r=J.t(y)
if(!r.$isat){p=b.b
if(!r.$isR)if(y.a>=4){b=p.bF()}
p.a=y.a
p.c=y.c
z.a=y
continue}else P.e4(y,p)
else P.fr(y,p)
return}
}p=b.b
b=p.bF()
y=x.a
x=x.b
if(!y){p.a=4
p.c=x}else{p.a=8
p.c=x}z.a=p
y=p}}}}

rP:{"^":"m:0;a,b",
$0:function(){P.ca(this.a,this.b)},
rW:{"^":"m:0;a,b",
$0:function(){P.ca(this.b,this.a.a)},
rT:{"^":"m:1;a",
$1:function(a){var z=this.a}
z.a=0
z.ax(a)}},

rU:{"^":"m:36:a",
$2:function(a,b){this.a.aD(a,b)},
$1:function(a){return this.$2(a,null)}},
rV:{"^":"m:0;a,b,c",
$0:function(){this.a.aD(this.b,this.c)}},
rR:{"^":"m:0;a,b",
$0:function(){P.e4(this.b,this.a)}},
rS:{"^":"m:0;a,b",
$0:function(){var z,y
```javascript
z = this.a
y = z.bF()
z.a = 4
z.c = this.b
P.ca(z, y))

rQ: "^": "m:0; a, b, c",
$0: function() { this.aD(this.b, this.c) },
rZ: "^": "m:2; a, b, c, d",
$0: function() { var z, y, x, w, v, u, t
z = null
try { z = this.d.l3() } catch (w) {
 v = H.Y(w)
y = v
x = H.ah(w)
if (this.c) { v = J.cl(this.a.a.c)
u = y
u = v === null ? u === null : v === u
v = u } else v = !1
u = this.b
if (v) u.b = this.a.a.c
else u.b = new P.cO(y, x)
u.a = !0
return }
} if (!J.t(z).Sisat) if (z instanceof P.R & z.gbr() >= 4) {
if (z.gjk()) { v = this.b
v.b = z.gfA()
v.a = !0 } return } t = this.a.a
v = this.b
v.b = z.aW(new P.t_(t))
v.a = !1
}
t_: "^": "m:1; a",
$1: function(a) { return this.a },
rY: "^": "m:2; a, b, c",
$0: function() { var z, y, x, w
try { this.a.b = this.b.l2(this.c) } catch (x) {
 w = H.Y(x)
z = w
y = H.ah(x)
w = this.a
w.b = new P.cO(z, y)
w.a = !0
}
}
rx: "^": "m:2; a, b, c",
$0: function() { var z, y, x, w, v, u, t, s
try { z = this.a.a.c
w = this.c
if (w.lk(z) === !0 & w.e !== null) { v = this.b
v.b = w.KY(z)
v.a = !1 } catch (u) { w = H.Y(u)
y = w
x = H.ah(u)
w = this.a
v = J.cl(w.a.c)
```
t=y
s=this.b
if(v==null?t==null:v===t)s.b=w.a.c
else s.b=new P.cO(y,x)
s.a=!0}}},
jp:{"^":"d;a,b"},
aB:{"^":"d;",
be:function(a,b){return H.f(new P.tl(b,this),[H.a7(this,"aB",0),null])},
aa:function(a,b){var z,y
z=[]
y=H.f(new P.R(0,$.z,null),[P.b7])
z.a=null
z.a=this.al(new P.qy(z,this.b,y),!0,new P.qz(y),y.gc5())
return y},
O:function(a,b){var z,y
z=[]
y=H.f(new P.R(0,$.z,null),[null])
z.a=null
z.a=this.al(new P.qC(z,this.b,y),!0,new P.qD(y),y.gc5())
return y},
ji:function(a){var z,y
z=[]
y=H.f(new P.R(0,$.z,null),[P.q])
z.a=0
this.al(new P.qG(z),!0,new P.qH(z,y),y.gc5())
return y},
gG:function(a){var z,y
z=[]
y=H.f(new P.R(0,$.z,null),[P.b7])
z.a=null
z.a=this.al(new P.qE(z,y),!0,new P.qF(y),y.gc5())
return y},
aZ:function(a){var z,y
z=H.f([],[H.a7(this,"aB",0)])
y=H.f(new P.R(0,$.z,null),[[P.h,H.a7(this,"aB",0)]])
this.al(new P.ql(this.z),!0,new P.ql(z,y),y.gc5())
return y},
aX:function(a,b){var z=H.f(new P.tx(b,this),[H.a7(this,"aB",0)])
if(typeof b!="number"||Math.floor(b)===b|b<0)H.x(P.N(b))
return z},
qy:{"^":"m;a,b,c,d"},
$1:function(a){var z,y
z=this.a
y=this.d
P.k2(new P.qw(this.c,a),new P.qx(z,y),P.jW(z,a,y))},
$signature:function(){return H.aX(function(a){return func1.args[a]}).this.b,"aB")},
qw:{"^":"m:0;a,b"},
$0:function(){return J.n(this.b,this.a)}},
if(z>=4)throw H.b(this.af())
z=4
this.b=z
if((z&1)!=0)throw H.b(this.aZ())
else if((z&3)==0)z=0
return this.c7()

a3:function(a,b){ var z,y
z=this.b
if((z&1)!=0)throw H.b(aE(b))
else if((z&3)==0){ z=1
y=new P.cC(b,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
z.K(0,y)}

e_:function(a,b,c,d){ var z,y,x,w
z=$.z
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.$
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|1
if((z&8)!=0){ w=H.b(new P.I("Stream has already been listened to."))
z=w.
y=new P.ju(this,null,null,null,z,d?1:0,null,null)
y.SbuiltinTypeInfo=H.SbuiltinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
```javascript
$0: function(){P.di(this.a.d)}},
tz:{"^":"m:2:a",
$0: function(){var z=this.a.c
if(z!==null&z.a===0)z.al(null)}},
tK:{"^":"d;",
aE:function(a){this.gcT().a3(0,a)},
aZ:function(){this.gcT().dF()}},
ry:{"^":"d;",
aE:function(a){this.gcT().bm(H.f(new P.cC(a,null),[null]))},
aZ:function(){this.gcT().bm(C.n)}},
rx:{"^":"jJ+ry;a,b,c,d,e,f,r"},
tJ:{"^":"jJ+tK;a,b,c,d,e,f,r"},
e1:{"^":"tB;a"},
gal:function(a){return(H.aM(this.a)^892482866)>>0},
q:function(a,b){if(b==null)return!1
if(!(b instanceof P.e1))return!1
return b.a===this.a},
ju:{"^":"e9;x,a,b,c,d,e,f,r"},
cN:function(){return this.x.fs(this)},
cP:{function(){this.x.ft(this)},"$0","geO",0,0,2],
cR:{function(){this.x.fu(this)},"$0","gcQ",0,0,2],
rM:{"^":"d;"},
c9:{"^":"d;br:e<",
jZ:function(a){if(a==null)return
this.r=a
if(!a.gG(a)){this.e=(this.e^64)>>>0
this.r.cD(this)}}},
co:function(a,b){var z=this.e
if((z&8)!==0)return
this.e=(z+128|4)>>>0
if(z<128&&!this.e)return!
if((z&64)!==0){z=this.r
z=!z.gG(z)
else z=!1
if(z)this.r.cD(this)
else{z=((this.e&4294967291)>>0
this.e=z
if((z&32)===0)this.dN(this.gcO())}}]
V:function(a){var z=(this.e&4294967279)>>0
this.e=z
if((z&8)!==0)return this.f
this.dC()```
return this.f},
dC:function(){var z=(this.e|8)>>>0
this.e=z
if((z&64)===0)this.r.fV()
if((this.e&32)===0)this.r=null
this.f=this.cN(),
a3:"
vv",function(a,b){var z=this.e
if((z&8)===0)return
if(z<32)this.aE(b)
else this.bm(H.f(new P.cC(b,null),[null]))},
cH:"iw",function(a,b){var z=this.e
if((z&8)===0)return
if((z&32)===0)this.r=null
this.f=this.cN()},
dF:function(){var z=this.e
if((z&8)===0)return
z=(z|2)>>>0
this.e=z
if(z<32)this.aZ()
else this.bm(C.n)},
cP:[function(){},"$0","gcO",0,0,2],
cR:[function(){},"$0","gcQ",0,0,2],
cN:function(){return},
bm:function(a){var z,y
z=this.r
if(z==null){z=H.f(new P.fv(null,null,0),[null])
this.r=z}z.K(0,a)
y=this.e
if((y&64)===0){y=(y|64)>>>0
this.e=y
if(y<128)this.r.cD(this)}},
aE:function(a){var z=this.e
this.e=(z|16)>>>0
this.d.eH(this.a,a)
this.e=(this.e&4294967263)>>>0
this.dE((z&4)===0),
cS:function(a,b){var z,y
z=this.e
y=new P.rD(this,a,b)
if((z&1)===0){this.e=(z|16)>>>0
this.dC()}
z=new P.rC(this)
this.dC()
this.e=(this.e|16)>>>0
y=this.f
if(!J.t(y).sisat)y.bi(z)
else z.$0()
}
dN:function(a){var z=this.e
this.e=(z|32)>>>0
a.$0()
this.e=(this.e&4294967263)>>0
this.dE((z&4)!==0),
dE:function(a){var z,y
if((this.e&64)!==0){z=this.r
z=z.gG(z) else z=!1
}
if(z){z=(this.e&4294967231)>>0
this.e=z
if((z&4)!==0){z<128}

return|y=(z&4)!==0
if(a===y)break
this.e=(z^32)>>0
if(y)this.cP()
else this.eR()
}
this.e=(this.e&4294967263)>>0}z=this.e
if((z&8)!==0){this.r=null
this.e=(z&4)!==0
if(z<128){z=this.r
z=z==null||z.gG(z)}else z=!1
else z=!1
}
for(;!0;a=y){z=this.e
if((z&8)!==0){this.r=null
return}y=(z&4)!==0
if(a===y)break
this.e=(z^32)>>0
if(y)this.cP()
else this.eR()
}
this.e=(this.e&4294967263)>>0}z=this.e
if((z&64)!==0&&z<128)z.r.cD(this),
cG:function(a,b,c,d,e){var z=this.d
z.toString
this.a=a
this.b=P.fK(b=null?P.uC():b,z)
this.c=c==null?P.kc():c},
$isrM:1,
$isd7:1,
rD:{"^":"m:2;a,b,c",}
$0:function(){var z,y,x,w,v,u
z=this.a
y=z.e
if((y&8)!==0&&(y&16)===0)return
z.e=(y|32)>>>0
y=z.b
x=x.cg(H.dj(),[H.kf(P.d),H.kf(P.bo)]).bo(y)
w=z.d
v=this.b
u=z.b
if(x)w.m_(u,v,this.c)
else w.eH(u,v)
z.e=(z.e&4294967263)>>0}]
,rC:{"^":"m:2;a"}
S0:function(){var z,y
z=this.a
y=z.e
if((y&16)==0)return
z.e=(y|42)>>0
z.d.eG(z,c)
z.e=(z.e&4294967263)>>0}}
tB:{"^":"aB;",al:function(a,b,c,d){return this.a.e_(a,d,c,0==b)},bS:function(a,b,c){return this.al(a,null,b,c)},hf:function(a){return this.al(a,null,null,null)}},
jw:{"^":"d;bf:a*"},cC:{"^":"jw;a6:b>,a",cp:function(a){a.aE(this.b)}},jv:{"^":"jw;ap:b>,aA:c<,a"},cp:function(a){a.cS(this.b,this.c)},rf:{"^":"d;"},cp:function(a){a.aZ()},gbf:function(a){return},sbf:function(a,b){throw H.b(new P.I("No events after a done."))},
ct:{"^":"d;br:a<",cD:function(a){var z=this.a
if(z===1)return
if(z>=1){this.a=1
return}P.kt(new P.to(this,a))this.a=1},fV:function(){if(this.a===1)this.a=3},to:{"^":"m:0;a,b"},S0:function(){var z,y
z=this.a
y=z.a
z.a=0
if(y===3)return
z.l_(this.b)},fV:{"^":"tn;b,c,a",gG:function(a){return this.c==null},K:function(a,b){var z=this.c
if(z==null){this.c=b
this.b=b}else{J.lm(z,b)
this.c=b}},l_:function(a){var z,y
z=this.b
y=J.ep(z)
this.b=y
if(y===null)this.c=null
z.cp(a)},jx:{"^":"d;a,br:b<,c"},dY:function(){var z,y
z
if((this.b&2)!=0)return
z=this.a
y=this.gjX()
z.toString
P.bQ(null,null,z,y)
this.b=(this.b|2)>>>0,
co:function(a,b){this.b+=4},
bv:function(a){return this.co(a,null)},
cr:function(a){var z=this.b
if(z>=4){

if(y=null)return z>=4
this.b=z
}
if(z<4&&((z&1)==0))return z
V:function(a){return},
aZ:[function(){var z=((z&4294967293)>>>0)
this.b=z
if(z!=null)z=null
else
this.dY()}
}
V:function(){if(z==null||((z&4)!==0){
z=new P.jx($.z,0,c)
z.$builtinTypeInfo=this.$builtinTypeInfo
z.dY()
return z}if(this.f==null){
return this.f.gkh(z)
else
return this.e.e_(a,d,c)===b}
}
bS:function(a,b,c){return this.al(a,null,b,c)}
cN:[function(){
}
}
}
}
}
}
}
}
V: function(a) { this.a.i_()
    return },
jk: "^": "d;a,b,c,br:d",
cK: function(a) { this.a = null
    this.c = null
    this.b = null
    this.d = 1 },
V: function(a) { var z, y
    z = this.a
    if(z == null) return
    if(this.d === 2) { y = this.c
        this.cK(0)
        y.ax(!1); this.cK(0)
        return z.V(0) },
    mm: function(a) { var z
        if(this.d === 2) { z = this.c
            this.cK(0)
            z.ax(!0)
            return this.a.bv(0) }
        this.c = a
        this.d = 3 },"$1", "$V", 2, 0, function() { return H.aX(function(a) { return { func: 1, v: true, args: [a] }, this.$receiver, "jK" } ),
jG: function(a, b) { var z
        if(this.d === 2) { z = this.c
            this.cK(0)
            z.aD(a, b)
            return this.a.bv(0) }
        this.c = new P.cO(a, b)
        this.d = 4, function(a) { return this.jG(a, null) }, "mw", "$2", "$1", "$F", 2, 2, 5, 0],
    mm: function() { if(this.d === 2) { var z = this.c
        this.cK(0)
        z.ax(!1)
        return this.a.bv(0) }
        this.c = null
        this.d = 5 }, "$0", "$W", 0, 0, 2],
    u8: "^": "m:0;a,b,c",
    $0: function() { return this.a.aD(this.b, this.c) },
    u7: "^": "m:12;a,b",
    $2: function(a, b) { P.u6(this.a, this.b, a, b) },
    u9: "^": "m:0;a,b",
    $0: function() { return this.a.ax(this.b) },
    db: "^": "aB;",
al: function(a, b, c, d) { return this.fa(a, d, c, 0 === b) },
bS: function(a, b, c) { return this.al(a, null, b, c) },
fa: function(a, b, c, d) { return P.ro(this.a, a, b, c, d, H.a7(this, "db", 0), H.a7(this, "db", 1)) },
dO: function(a, b) { b.a3(0, a) },
jj: function(a, b, c) { c.cH(a, b) },

Open Source Used In Edge and Fog Processing Module 1.6.0
$asaB:function(a,b){return[b]}},
e3:{"^":"c9;x,y,a,b,c,d,e,f,r", a3:function(a,b){if((this.e&2)==0)return this.iv(b)},
cH:function(a,b){if((this.e&2)==0)return this.iw(b)},
cP:[function(){var z=this.y
if(z==null)return
z.bv(0),"$0","gcO",0,0,2],
cR:[function(){var z=this.y
if(z==null)return
z.cr(0),"$0","gcQ",0,0,2].
cN:function(){var z=this.y
if(z!=null){this.y=null
return z.V(0)}}]

mr:[function(a){this.x.dO(a,this)),"$1","gjg",2,0,function(){return
H.aX(function(a,b){return{func:1,v:true,args:[a]}},this.$receiver,"e3")}],
mt:[function(a,b){this.x.jj(a,b,this)},"$2","gji",4,0,24],
ms:[function(){this.dF()},"$0","gjh",0,0,2],
f1:function(a,b,c,d,e,f,g){var z,y
z=this.gjg()
y=this.gji()
this.y=this.x.a.bS(z,this.gjh(),y),
$asc9:function(a,b){return[b]},
C:{
rO:function(a,b,c,d,e,f,g){var z,y,x,w,v
z=null
try{z=this.b.$1(a)}catch(w){v=H.Y(w)
y=v
x=H.ah(w)
P.u2(b,y,x)
return}J.kC(b,z)}},
}
ty:{"^":"e3;z,x,y,a,b,c,d,e,f,r",
gj4:function(a){return this.z},
$ase3:function(a){return[a]},
$asc9:null},
tx:{"^":"db;b,a", fa:function(a,b,c,d){var z,y,x
z=H.J(this,0)
y=$.z
x=d?1:0
x=new P.ty(this.b,b,this.null,null,null,null,y,x.null,null)


x.$builtinTypeInfo=this.$builtinTypeInfo
x.cG(a,b,c,d,z)
x.f1(this,a,b,c,d,z,z)
return x}
dO:function(a,b){var z,y
z=b.gj4(b)
y=J.o(z)
if(y.B(z,0)){b.z=y.m(z,1)
return}b.a3(0,a)}
$asdb:function(a){return[a,a]},
$asaB:null},
j3:{"^":"d;"},
cO:{"^":"d;ap:a>,aA:b<",
p:function(a){return H.k(this.a)},
$isas:1},
u1:{"^":"d;"},
us:{"^":"m:0;a,b",
$0:function(){var z,y,x
z=this.a
y=z.a
if(y==null){x=new P.dP()
z.a=x
z=x}else z=y
y=this.b
if(y==null)throw H.b(z)
x=H.b(z)
x.stack=J.aR(y)
throw x}}
,ts:{"^":"u1;"},
eG:function(a){var z,y,x,w
try{if(C.i==$z){x=a.$0()
return x}x=P.k_(null,null,this,a)
return x}catch(w){x=H.Y(w)
z=x
y=H.ah(w)
return P.ce(null,null,this,z,y)}},
eH:function(a,b){var z,y,x,w
try{if(C.i==$z){x=a.$1(b)
return x}x=P.k1(null,null,this,a,b)
return x}catch(w){x=H.Y(w)
z=x
y=H.ah(w)
return P.ce(null,null,this,z,y)}},
m_:function(a,b,c){var z,y,x,w
try{if(C.i==$z){x=a.$2(b,c)
return x}x=P.k0(null,null,this,a,b,c)
return x}catch(w){x=H.Y(w)
z=x
y=H.ah(w)
return P.ce(null,null,this,z,y)}

e7:function(a,b){if(b)return new P.tt(this,a)
else return new P.tu(this,a)}
fU:function(a,b){return new P.tv(this,a)}
h:function(a,b){return}
hv:function(a){if($.z===C.i)return a.$0()
return P.k_(null,null,this,a)}
ct:function(a,b){if($.z===C.i)return a.$1(b)
return P.k1(null,null,this,a,b)}
lZ:function(a,b,c){if($.z===C.i)return a.$2(b,c)
return P.k0(null,null,this,a,b,c)}
tt:{"^"="m:0;a,b",
$0:function(){return this.a.eG(this.b)}
tu:{"^"="m:0;a,b",
$0:function(){return this.a.hv(this.b)}
tv:{"^"="m:1;a,b",
$1:function(a){return this.a.eH(this.b,a)}}}
po:function(a,b,c){return H.kj(a,H.f(new H.a0(0,null,null,null,null,null,0),[b,c]))}
f1:function(a,b){return H.f(new H.a0(0,null,null,null,null,null,0),[a,b])}
a5:function(){}return H.f(new H.a0(0,null,null,null,null,null,0),[null,null])}
aj:function(a){return H.kj(a,H.f(new H.a0(0,null,null,null,null,null,0),[null,null])).
i4:function(a,b,c,d){return H.f(new P.t0(0,null,null,null,null),[d])}
p2:function(a,b,c){var z,y
if(P.fl(a))return b+"..."+c}z=[]
y=$.$get$cI()
y.push(a)
try{P.up(a,z)}finally{if(0>=y.length)return H.a(y,-1)
y.pop()}y=P.fl(b,z," ")+c
return y.charCodeAt(0)==0?y:y}
dH:function(a,b,c){var z,y,x
if(P.fl(a))return b+"..."+c}
z=new P.aV(b)
y=$.$get$cI()
y.push(a)
try{x=z
x.a=P.fl(x,gbC(),a," "),")finally{if(0>=y.length)return H.a(y,-1)
y.pop()}y=z
y.a=y.gbC()+c
y=z.gbC()
return y.charCodeAt(0)==0?y:y}
fl:function(a){var z,y
for(z=0;y=$.$get$cI(),z<y.length;++z){y=y[z]
if(a==null?y==null:a===y)return!0}return!1}
up:function(a,b){var z,y,x,w,v,u,t,s,r,q
z=a.gl(a)
y=0
x=0
while(!0){if(!(y<80||x<3))break
if(!z.w())return
w=H.k(z.gF())
b.push(w)
y+=w.length+2;++x}
if(!z.w())if(x<=5)return
if(0>=b.length)return H.a(b,-1)
v=b.pop()
if(0>=b.length)return H.a(b,-1)
u=b.pop() else {t=z.gF();++x
if(!z.w())if(x<=4){b.push(H.k(t))
return}v=H.k(t)
if(0>=b.length)return H.a(b,-1)
}
u=b.pop()
y+=v.length+2}else {s=z.gF();++x
for(;z.w();t=s,r=t){r=z.gF();++x
if(x>100)while(0){if(y>75&&x>3))break
if(0>=b.length)return H.a(b,-1)
y-=b.pop().length+2;--x}
b.push("...")
return} u=H.k(t)
v=H.k(s)
y+=v.length+u.length+4}
if(x>b.length+2){y+=5
q="..."} else q=null
while(!0){if(!(y>80&&b.length>3))break
if(0>=b.length)return H.a(b,-1)
y-=b.pop().length+2
if(q==null)y+=5
q="..."}
for(;z.w();t=s,r=t){r=z.gF();++x
if(x>100)while(0){if(y>75&&x>3))break
if(0>=b.length)return H.a(b,-1)
y-=b.pop().length+2
if(q==null)y+=5
q="..."}
for(;z.w();t=s,r=t){r=z.gF();++x
if(x>100)while(0){if(y>75&&x>3))break
if(0>=b.length)return H.a(b,-1)
y-=b.pop().length+2
if(q==null)y+=5
q="..."}
if(a==null)return -1
z=a.length
for(y=0;y<z;++y){x=a[y].ghb()
if(x==null?b==null:x===b)return y}
C{
cE:function(a,b){return H.f(new P.jF(0,null,null,null,null,0),[a,b])}}
t0: {"\":"jz;a,b,c,d,e",
gL:function(a){return new P.jA(this,this.f8(),0,null)},
gi:function(a){return this.a},
gG:function(a){return this.a===0},
gah:function(a){return this.a!==0},
aa:function(a,b){var z,y
if(typeof b==="string"&b!=="__proto__"){z=this.b
return z=null?!1:z[b]!=null}else if(typeof b==="number"&b&0x3fffff==b){y=this.c
return y=null?!1:y[b]!=null}else return this.dH(b)},
dH:function(a){var z=this.d
if(z==null)return!1
return this.b9(z[this.b8(a)],a)>=0},
ev:function(a){var z
if(!z)return this.aa(0,a)?a:null
return this.dU(a)},
dU:function(a){var z,y,x
z=this.d
if(z==null)return
y=z[this.b8(a)]
x=this.b9(y,a)
if(x<0)return
return J.j(y,x)},
K:function(a,b){var z,y,x
if(typeof b==="string"&b!=="__proto__"){z=this.b
if(z==null){y=Object.create(null)
y["<non-identifier-key>"]=y
delete y["<non-identifier-key>"]}
this.b=y
z=y}return this.c4(z,b)}else if(typeof b==="number"&b&0x3fffff==b){x=this.c
if(x==null){y=Object.create(null)
y["<non-identifier-key>"]=y
delete y["<non-identifier-key>"]}
this.c=y
x=y}return this.c4(x,b)}else return this.aC(0,b)},
aC:function(a,b){var z,y,x
z=this.d
if(z==null){z=P.t1()
this.d=z}y=this.b8(b)
x=z[y]
if(x==null)z[y]=[b]
else {if(this.b9(x,b)>=0)return!1
x.push(b)++this.a
this.e=null
return!0},
aF:function(a,b){var z
for(z=b.gL(b);z.w();this.K(0,z.gF()));
f8:function(){var z,y,x,w,v,u,t,q,o
z=this.e
if(z!=null)return z
y=new Array(this.a)
y.fixed$length=Array
x=this.b
if(x!=null){w=Object.getOwnPropertyNames(x)
v=w.length
for(u=0,t=0;t<v;++t) {y[u]=w[t];++u } else u=0
s=this.c
if(s!=null){w=Object.getOwnPropertyNames(s)
v=w.length
for(t=0;t<v;++t) {y[u]=+w[t];++u } r=this.d
if(r!=null){w=Object.getOwnPropertyNames(r)
v=w.length
for(t=0;t<v;++t) {q=r[w[t]]
p=q.length
for(o=0;o<p;++o) {y[u]=q[o];++u } } this.e=y
return y,
c4:function(a,b){if(a[b]!=null)return!1
a[b]=0;++this.a
this.e=null
return!0},
b8:function(a){return J.ao(a)&0x3ffffff},
b9:function(a,b){var z,y
if(a==null)return-1
z=a.length
for(y=0;y<z;++y)if(J.n(a[y],b))return y
return-1}
$isu:1,
$ise:1,
$ase:null,
C:{
t1:function() { var z=Object.create(null)
z["<non-identifier-key>"]=z
delete z["<non-identifier-key>"]
return z }}},
jA:{"^":d;a,b,c,d",
gF:function(){return this.d},
w:function(){var z,y,x
z=this.b
y=this.c}
x = this.a
if(z !== this.e) throw H.b(new P.al(x))
else if(y >= z.length) {this.d = null
return !1} else {this.d = z[y]
this.c = y + 1
return !0}]

```javascript
x = this.a
if(z !== this.e) throw H.b(new P.al(x))
else if(y >= z.length) {this.d = null
return !1} else {this.d = z[y]
this.c = y + 1
return !0}]
tE: {"^": "a,b,c,d,e,f,r",
G: function(a) { var z = new P.jE(this, this.r, null, null)
z.c = this.e
return z},
Gi: function(a) { return this.a },
Gg: function(a) { return this.a === 0 },
Gah: function(a) { return this.a !== 0 },
aa: function(a, b) {
    var z, y
    if (typeof b === "string" && b !== "__proto__") { z = this.b
    if (z !== null) return !1
    return z[b] !== null
    } else if (typeof b === "number" && (b & 0x3ffffff) === b)
    { y = this.c
    if (y !== null) return !1
    return y[b] !== null
    } else return this.dH(b),
    dH: function(a) { var z = this.d
    if (z === null) return !1
    return this.b9(z[this.b8(a)], a) >= 0},
ev: function(a) { var z
    if (! (typeof a === "string" && a !== "__proto__"))
    { z = typeOf a === "number" && (a & 0x3ffffff) === a
    else z = 0
    if (z) return this.aa(0, a) ? a : null
    else return this.dU(a),
    dU: function(a) { var z, y, x
    z = this.d
    if (z === null) return
    y = z[this.b8(a)]
    x = this.b9(y, a)
    if (x < 0) return
    return J.j(y, x), gc6(),
    O: function(a, b) { var z, y, x
    z = this.e
    y = this.r
    for (z !== null;) { b.$1(z, gc6())
    if (y !== this.r) throw H.b(new P.al(this))
    z = z.b },
    gM: function(a) { var z = this.f
    if (z === null) throw H.b(new P.I("No elements")),
    return z, gc6(),
    K: function(a, b) { var z, y, x
    if (typeof b === "string" && b !== "__proto__") { z = this.b
    if (z !== null) { y = Object.create(null)
    y["<non-identifier-key> "] = y
    delete y["<non-identifier-key>"]
    } else throw H.b(new P.al(x))
    return !1
    }
```
this.b=y
z=y}return this.c4(z,b)}else if(typeof b==='"number'&&(b&0x3ffffff===b){x=this.c
if(x===null){y=Object.create(null)
y['<non-identifier-key>']=y
delete y['<non-identifier-key>']}
this.c=y
x=y}return this.c4(x,b)}else return this.aC(0,b)),
aC:function(a,b){var z,y,x
z=this.d
if(z===null){z=P.tg()}
this.d=z}y=this.b8(b)
x=z[y]
if(x===null){z[y]=null}
else if(typeof b==='number'&&(b&0x3ffffff===b){x=Object.create(null)
x.push(this.dG(b))
return!0},
Y:function(a,b){if(typeof b==='string'&b!==='__proto__')return this.f6(this.b,b)
else if(typeof b==='number'&&(b&0x3ffffff===b){return this.f6(this.c,b)
else return this.j1(0,b)),
j1:function(a,b){var z,y,x
z=this.d
if(z===null){return!1}
y=z[Object.keys(b)]
x=Object.keys(b)
if(x<0){return!1}
this.f7(y.splice(x,1)[0])
return!0},
ag:function(a){if(this.a>0){this.f=null
this.e=null
this.d=null
this.c=null
this.b=null
this.a=0
this.r= Object.prototype.toString.call(1&67108863)},
c4:function(a,b){if(a[b]===null){return!1
a[b]=this.dG(b)
return!0},
f6:function(a,b){var z
if(a===null){return!1
z=a[b]
if(z===null){return!1
this.f7(z)
delete a[b]
return!0},
dG:function(a){var z,y
z=new P.tf(a,null,null)
if(this.e===null){this.f=z
this.e=z}else{y=this.f
z.c=y}
y.saY(z)
this.f=z}++this.a
this.r=this.r+1&67108863
return z,
if7:function(a){var z,y
z=a.gbq()
y=a.gaY()
if(z==null)this.e=y
else z.saY(y)
if(y==null)this.f=z
else y.sbq(z):-this.a
this.r=this.r+1&67108863},
b8:function(a){return J.ao(a)&0x3fffffff},
b9:function(a,b){var z,y
if(a==null)return-1
z=a.length
for(y=0;y<z;++y)if(J.n(a[y].gc6(),b))return y
return-1},
$isu:1,
$ise:1,
$ase:null,
C:{
tg:function(){var z=Object.create(null)
z["<non-identifier-key>"]=z
delete z["<non-identifier-key>"]
return z}}),
tf:{"^":d;c6:a<,aY:b@,bq:c@"},
jE:{"^":d;a,b,c,d",
gF:function(){return this.d},
w:function(){var z=this.a
if(this.b!==z.r)throw H.b(new P.al(z))
else{z=this.c
if(z==null){this.d=null
return!1}else{this.d=z.gc6()
this.c=this.c.gaY()
return[0]}}}},
jjz:{"^";"qe;"},
i8:{"^";"e;"},
pp:{"^";"e;a,b,c"},
K:function(a,b){this.dS(this.c.b!,1)},
gl:function(a){return new P.th(this,this.a,null,this.c,!1)},
gi:function(a){return this.b},
gM:function(a){if(this.b===0)throw H.b(new P.I("No such element"))
return this.c.gbq()},
O:function(a,b){var z,y,x
z=this.a
if(this.b===0)return
y=this.c
do{b.$1(y)
if(z!==this.a)throw H.b(new P.al(this))
y=y.gaY()}
while(x===null?x===null:y!==x)),
gG:function(a){return this.b===0},
dS:function(a,b,c){var z,y
if(J.kZ(b)!==null)throw H.b(new P.I("LinkedListEntry is already in a LinkedList"));++this.a
b.a=this
z=this.b
if(z===0){b.b=b
b.c=b
this.c=b
this.b=z+1
return}y=a.gbq()
b.c=y
b.b=a
y.saY(b)
a.sbq(b)
if(c&6a===this.c)this.b;++this.b},
k8:function(a){var z,y;++this.a
a.b.sbq(a.c)
z=a.c
y=a.b
z.saY(y)
z=--this.b
a.c=null
a.b=null
a.a=null
if(z===0)this.c=null
else if(a===this.c)this.c=y},
th:{"^":"d;a,b,c,d,e",
gF:function(){return this.c},
glf:function(a){return this.a},
gbf:function(a){var z,y
if(this.b!==null)if(this.e){y=this.d
z=z.c
z=y==null?z==null:y===z}else z=!1
else z=!0
if(z){this.c=null
return!1}this.e=!0
z=this.a
if(this.b!==z.a)throw H.b(new P.al(this))
if(z.b!==0)if(this.e){y=this.d
z=z.c
z=y==null?z==null:y===z}else z=!1
else z=!0
if(z){this.c=null
return!1}this.e=!0
z=this.d
this.c=z
this.d=z.gaY()
return!0}),
pq:{"^":"d;aY:b@,bq:c@",
gIf:function(a){return this.a},
ghf:function(a){var z,y
z=this.a
if(z!=null){if(z.b===0)H.x(new P.I("No such element"))
z=z.c
y=z===null?y===null?z===y
z=y}else z=!0
if(z)return
return this.b}]
bc:{"^":"pL;"},
a4:{"^":"d;"},
gL:function(a){return new H.ih(a,this.gi(a),0,null)},
N:function(a,b){return this.h(a,b)},
O:function(a,b){var z,y
z=this.gi(a)
if(typeof z!="number")return H.i(z)
y=0
for(;y<z;++y){b.$1(this.h(a,y))
if(z!=this.gi(a))throw H.b(new P.al(a))}
gG:function(a){return J.n(this.gi(a),0)},
gah:function(a){return!this.gG(a)},
gM:function(a){if(J.n(this.gi(a),0))throw H.b(H.b2())
return this.h(a,J.G(this.gi(a),1))},
aa:function(a,b){var z,y,x,w
z=this.gi(a)
y=J.l(z)
x=0
while(!0){w=this.gi(a)
if(typeof w!="number")return H.i(w)
if((x<w))break
if(J.n(this.h(a,x),b))return!0
if(!y.q(z,this.gi(a)))throw H.b(new P.al(a));++x}return!1},
bP:function(a,b){var z
if(J.n(this.gi(a),0))return"
z=P.fk("",a,b)
return z.charCodeAt(0)==0?z:z},
hE:function(a,b){return H.f(new H.fo(a,b),[H.a7(a,"a4",0)])},
bE:function(a,b){return H.f(new H.f6(a,b),[null,null])},
aX:function(a,b){return H.dX(a,b,null,H.a7(a,"a4",0))},
an:function(a,b){var z,y,x
z=H.f([],H.a7(a,"a4",0))
C.c.si(z,this.gi(a))
y=0
while(!0){x=this.h(a,y)
if(typeof x!="number")return H.i(x)
if(!y<x))break
x=this.h(a,y)
if(y>=z.length)H.a(z,y)
z[y]=x;++y}return z,
az: function(a) { return this.an(a,0); },
K: function(a,b) { var z=this.gl(a)
this.si(a,J.p(z,1))
this.k(a,z,b)},
Y: function(a,b) { var z,y
z=0
while(!0) {y=this.gl(a)
if(typeof y!="number") return H.i(y)
if(!(z<y)) break
if(J.n(this.h(a,z),b)) {this.P(a,z,J.G(this.gl(a),1),a,z+1)
this.si(a,J.G(this.gl(a),1))
return!0}++z}return!1},
b3: function(a) { var z
if(J.n(this.gl(a),0)) throw H.b(H.b2())
z=this.h(a,J.G(this.gl(a),1))
this.si(a,J.G(this.gl(a),1))
return z},
U: function(a,b,c) { var z,y,x,w,v
z=this.gl(a)
if(c==null)c=z
P.aF(b,c,z,null,null,null)
y=J.G(c,b)
x=H.f([],[H.a7(a,"a4",0)])
C.c.si(x,y)
if(typeof y!="number") return H.i(y)
w=0
for(w<y;++w) {v=this.h(a,b+w)
if(w>=x.length) return H.a(x,w)
x[w]=v} return x},
as: function(a,b) { return this.U(a,b,null)},
eC: function(a,b,c) { var z
P.aF(b,c,this.gl(a),null,null,null)
z=J.G(c,b)
this.P(a,b,J.G(this.gl(a),z),a,c)
this.si(a,J.G(this.gl(a),z)),
ak: function(a,b,c,d) { var z
P.aF(b,c,this.gl(a),null,null,null)
for(z=b;z<c;++z) this.k(a,z,d),
P: ["f_"], function(a,b,c,d,e) { var z,y,x,w,v,u,t,s
P.aF(b,c,this.gl(a),null,null,null)
z=J.G(c,b)
y=J.t(z)
if(y.q(z,0))return
if(J.E(e,0)) H.x(P.S(e,0,null,"skipCount",null))
x=J.t(d)
if(!x.$ish) { w=e
v=d} else { v=x.aX(d,e).an(0,!1)
w=0} x=J.am(w)
u=J.D(v)
if(t.T(x,j(w,z),u.gi(v)))throw H.b(H.i9(j))
if(x.u(w,b))for(t=y.m(z,1),y=J.am(b);s=J.o(t,s,J(t,0);t=s.m(t,1));this.k(a,y.j(b,t),u.h(v,x.j(w,t))))
else{if(typeof z!="number")return H.i(z)
y=J.am(b)
t=0
for(t<z;++t){this.k(a,y.j(b,t),u.h(v,x.j(w,t)))}
function(a,b,c,d){return this.P(a,b,c,d,0),"a8",null,null,"gmh",6,2,null,1],
aM:function(a,b,c,d){ var z,y,x,w,v,u,t
P.aF(b,c,this.gi(a),null,null,null)
d=C.a.az(d)
z=J.G(c,b)
y=d.length
x=J.o(z)
w=J.am(b)
if(x.J(z,y))\{v=x.m(z,y)
u=w.j(b,y)
t=J.G(this.gi(a),v)
this.a8(a,b,u,d)
if(!J.n(v,0)){this.P(a,u,t,a,c)
this.si(a,t)}else{if(typeof z!="number")return H.i(z)
t=J.p(this.gi(a),y-z)
u=w.j(b,y)
this.si(a,t)
this.P(a,u,t,a,c)
this.a8(a,b,u,d)}],
bM:function(a,b,c,d){ var z,y
z=this.gi(a)
if(typeof z!="number")return H.i(z)
if(c>=z)return-1
if(c<0)c=0
y=c
while(!0){z=this.gi(a)
if(!z)return-1
if(J.n(this.h(a,y),b))return y;++y}return-1}
d0:function(a,b){return this.bM(a,b,0}),
bQ:function(a,b,c){var z,y
c=J.G(this.gi(a),1)
for(z=c;y=J.o(z),y.J(z,0);z=y.m(z,1))if(J.n(this.h(a,z),b))return z
return-1}
cm:function(a,b){return this.bQ(a,b,null)},
bk:function(a,b,c){this.a8(a,b,b+c.length,c)},
p:function(a){return P.dH(a,"\[","\]")},
$ish:1,
$ash:null,
$isu:1,
$ise:1,
$ase:null},
tL: {"^":"d;",
k:function(a,b,c){throw H.b(new P.w("Cannot modify unmodifiable map")),
Y:function(a,b){throw H.b(new P.w("Cannot modify unmodifiable map")),
SisU:1,
$asU: null},
pA: {"^":"d;",
h:function(a,b){return this.a.h(0,b)},
k:function(a,b,c){this.a.k(0,b,c)},
D:function(a,b){return this.a.D(0,b)},
O:function(a,b){this.a.O(0,b)},
gG:function(a){var z=this.a
return z.gG(z)},
gah:function(a){var z=this.a
return z.gah(z)},
gi:function(a){var z=this.a
return z.gi(z)},
ga9:function(a){var z=this.a
return z.ga9(z)},
p:function(a){return this.a.p(0)},
ghb:function(a){var z=this.a
return z.ghb(z)},
SisU:1,
$asU: null},
r1:{"^":"pA+tL; a",SisU:1,$asU: null},
pC:{"^":"m:3; a, b"},
$2:function(a,b){var z,y
z=this.a
if(!z.a)this.b.a+=",
"z.a=!1
z=this.b
y=z.a+=H.k(a)
z.a=y+" 

z.a+=H.k(b) },
ps: {"^": "bl; a, b, c, d",
gL:function(a){return new P.jG(this,this.c,this.d,this.b,null)},
O:function(a,b){var z,y,x
z=this.d
for(y=this.b;y!=this.c;y=(y+1&this.a.length-1)>>>0){x=this.a
if(y<0||y>=x.length)return H.a(x,y)
b.$1(x[y])
if(z===this.d)H.x(new P.al(this))},
gG:function(a){return this.b===this.c},
gi:function(a){return(this.c-this.b&this.a.length-1)>>>0},
gM:function(a){var z,y,x
z=this.b
y=this.c
if(z===y)throw H.b(H.b2())}
z = this.a
x = z.length
y = (y - 1 & x - 1) >>> 0
if (y < 0 || y > x) return H.a(z, y)
return z[y],
N: function(a, b) { var z, y, x, w
z = (this.c - this.b & this.a.length - 1) >>> 0
if (typeof b !== "number") return H.i(b)
if (0 > b || b > z) H.x(P.a3(b, this, "index", null, z))
y = this.a
x = y.length
w = (this.b + b & x - 1) >>> 0
if (w < 0 || w > x) return H.a(y, w)
return y[w],
N: function(a, b) { var z, y, x, w
z = (this.c - this.b & this.a.length - 1) >>> 0
if (typeof b !== "number") return H.i(b)
if (0 > b || b > z) H.x(P.a3(b, this, "index", null, z))
y = this.a
x = y.length
w = (this.b + b & x - 1) >>> 0
if (w < 0 || w > x) return H.a(y, w)
return y[w],
N: function(a, b) { var z, y, x, w
z = (this.c - this.b & this.a.length - 1) >>> 0
if (typeof b !== "number") return H.i(b)
if (0 > b || b > z) H.x(P.a3(b, this, "index", null, z))
y = this.a
x = y.length
w = (this.b + b & x - 1) >>> 0
if (w < 0 || w > x) return H.a(y, w)
return y[w],
N: function(a, b) { var z, y, x, w
z = (this.c - this.b & this.a.length - 1) >>> 0
if (typeof b !== "number") return H.i(b)
if (0 > b || b > z) H.x(P.a3(b, this, "index", null, z))
y = this.a
x = y.length
w = (this.b + b & x - 1) >>> 0
if (w < 0 || w > x) return H.a(y, w)
return y[w],
N: function(a, b) { var z, y, x, w
z = (this.c - this.b & this.a.length - 1) >>> 0
if (typeof b !== "number") return H.i(b)
if (0 > b || b > z) H.x(P.a3(b, this, "index", null, z))
y = this.a
x = y.length
w = (this.b + b & x - 1) >>> 0
if (w < 0 || w > x) return H.a(y, w)
return y[w],
N: function(a, b) { var z, y, x, w
z = (this.c - this.b & this.a.length - 1) >>> 0
if (typeof b !== "number") return H.i(b)
if (0 > b || b > z) H.x(P.a3(b, this, "index", null, z))
y = this.a
x = y.length
w = (this.b + b & x - 1) >>> 0
if (w < 0 || w > x) return H.a(y, w)
return y[w],
N: function(a, b) { var z, y, x, w
z = (this.c - this.b & this.a.length - 1) >>> 0
if (typeof b !== "number") return H.i(b)
if (0 > b || b > z) H.x(P.a3(b, this, "index", null, z))
y = this.a
x = y.length
w = (this.b + b & x - 1) >>> 0
if (w < 0 || w > x) return H.a(y, w)
return y[w],
N: function(a, b) { var z, y, x, w
z = (this.c - this.b & this.a.length - 1) >>> 0
if (typeof b !== "number") return H.i(b)
if (0 > b || b > z) H.x(P.a3(b, this, "index", null, z))
y = this.a
x = y.length
w = (this.b + b & x - 1) >>> 0
if (w < 0 || w > x) return H.a(y, w)
return y[w],
N: function(a, b) { var z, y, x, w
z = (this.c - this.b & this.a.length - 1) >>> 0
if (typeof b !== "number") return H.i(b)
if (0 > b || b > z) H.x(P.a3(b, this, "index", null, z))
y = this.a
x = y.length
w = (this.b + b & x - 1) >>> 0
if (w < 0 || w > x) return H.a(y, w)
return y[w],
N: function(a, b) { var z, y, x, w
z = (this.c - this.b & this.a.length - 1) >>> 0
if (typeof b !== "number") return H.i(b)
if (0 > b || b > z) H.x(P.a3(b, this, "index", null, z))
y = this.a
x = y.length
w = (this.b + b & x - 1) >>> 0
if (w < 0 || w > x) return H.a(y, w)
return y[w],
N: function(a, b) { var z, y, x, w
z = (this.c - this.b & this.a.length - 1) >>> 0
if (typeof b !== "number") return H.i(b)
if (0 > b || b > z) H.x(P.a3(b, this, "index", null, z))
y = this.a
x = y.length
w = (this.b + b & x - 1) >>> 0
if (w < 0 || w > x) return H.a(y, w)
return y[w],
N: function(a, b) { var z, y, x, w
z = (this.c - this.b & this.a.length - 1) >>> 0
if (typeof b !== "number") return H.i(b)
if (0 > b || b > z) H.x(P.a3(b, this, "index", null, z))
y = this.a
x = y.length
w = (this.b + b & x - 1) >>> 0
if (w < 0 || w > x) return H.a(y, w)
return y[w],
N: function(a, b) { var z, y, x, w
z = (this.c - this.b & this.a.length - 1) >>> 0
if (typeof b !== "number") return H.i(b)
if (0 > b || b > z) H.x(P.a3(b, this, "index", null, z))
y = this.a
x = y.length
w = (this.b + b & x - 1) >>> 0
if (w < 0 || w > x) return H.a(y, w)
return y[w],
N: function(a, b) { var z, y, x, w
z = (this.c - this.b & this.a.length - 1) >>> 0
if (typeof b !== "number") return H.i(b)
if (0 > b || b > z) H.x(P.a3(b, this, "index", null, z))
return z,
az: function(a) { return this.an(a, !0),
K: function(a, b) { this.aC(0, b),
ag: function(a) { var z, y, x, w, v
z = this.b
y = this.c
if (z !== y) { for (x = this.a, w = x.length, v = w - 1; z !== y; z = (z + 1 & v) >>> 0) { if (z < 0 || z >= w) return H.a(x, z)
x[z] = null } this.c = 0
this.b = 0; ++this.d },
p: function(a) { return P.dH(this, "{", ",", "}"),
eB: function() { var z, y, x, w
z = this.b
if (z !== x) throw H.b(H.b2()); ++this.d
y = this.a
x = y.length
if (x >= z) return H.a(y, z)
w = y[z]
y[z] = null
this.b = (z + 1 & x - 1) >>> 0
return w,
b3: function(a) { var z, y, x, w
z = this.b
y = this.c
if (z === y) throw H.b(H.b2()); ++this.d
z = this.a
x = z.length
y = (y - 1 & x - 1) >>> 0
this.c = y
if (y < 0 || y > x) return H.a(z, y)
w = z[y]
z[y] = null
return w),
aC:function(a,b){ var z,y,x
z=this.a
y=this.c
x=z.length
if(y<0||y>=x)return H.a(z,y)
z[y]=b
x=(y+1&x-1)>>0
this.c=x
if(this.b===x)this.fh();++this.d},
fh:function(){var z,y,x,w
z=new Array(this.a.length*2)
y=H.f(z,[H.J(this,0)])
z=this.a
x=this.b
w=z.length-x
C.c.P(y,0,w,z,x)
C.c.P(y,w,w+this.b,this.a,0)
this.b=0
this.c=this.a.length
this.a=y},
kc:function(a){var z,y,x,w,v
z=this.b
y=this.c
x=this.a
if(z<=y){w=y-z
C.c.P(a,0,w,x,z)
return w}else{v=x.length-z
C.c.P(a,0,v,x,z)
C.c.P(a,v,v+this.c,this.a,0)
return this.c+v}%
},
iE:function(a,b){ var z=new Array(8)
z.fixed$length=Array
this.a=H.f(z,[b])},
$iu:1,
$ase:null,
C:{
dL:function(a,b){ var z=H.f(new P.ps(null,0,0,0),[b])
z.iE(a,b)
return z}%
},
jG:{"^":"d;a,b,c,d,e",
gF:function(){return this.e},
w:function(){ var z,y,x
z=this.a
if(this.c!==z.d)H.x(new P.al(z))
y=this.d
if(y===this.b){this.e=null
try{z=JSON.parse(a)}catch(w){x=H.Y(w)
y=x
throw H.b(new P.ai(String(y),null,null))if(b==null)return P.e9(z)
else return P.uf(z,b)},
yZ:[function(a){return a.mQ()}."$1","kg",2,0,1],
yg:{$1:function(a){var z,y,x,w,v,u
if(a==null||typeof a!="object")return a
if(Object.getPrototypeOf(a)===Array.prototype){for(z=this.a,y=0;y<a.length;++y)a[y]=z.$2(y,this.$1(a[y]))
return a}
zObject.create(null)
x=new P.jC(a,z,null)
w=x.aP()
for(v=this.a,y=0;y<w.length;++y){u=w[y]
z[u]=v.$2(u,this.$1(a[u]))x.a=z
return x}}},
jC:{"^":"d;a,b,c",
h:function(a,b){var z,y
z=this.b
if(z==null)return this.c.h(0,b)
else if(typeof b!="string")return
else{y=z[b]
return typeof y="undefined"?this.jM(b):y}},
$1:function(a){var z,y,x,w,v,u
if(a==null||typeof a!="object")return a
if(Object.getPrototypeOf(a)===Array.prototype){for(z=this.a,y=0;y<a.length;++y)a[y]=z.$2(y,this.$1(a[y]))
return a}
x=new P.jC(a,z,null)
w=x.aP()
for(v=this.a,y=0;y<w.length;++y){u=w[y]
z[u]=v.$2(u,this.$1(a[u]))x.a=z
return x}}};
return Object.prototype.hasOwnProperty.call(this.a,b)),
ho:function(a,b,c){var z
if(this.D(0,b))return this.h(0,b)
z=c.$0()
this.k(0,b,z)
return z},
Y:function(a,b){if(this.b!=null&&!this.D(0,b))return
return this.fl().Y(0,b)},
ag:function(a){var z
if(this.b===null)this.c.ag(0)
else{z=this.c
if(z!==null)J.kJ(z)
this.b=null
this.a=null
this.c=P.a5()}
O:function(a,b){var z,y,x,w
if(this.b==null)return this.c.O(0,b)
z=this.aP()
for(y=0;y<z.length;++y){x=z[y]
w=this.b[x]
if(typeof w=="undefined"){w=P.e9(this.a[x])
this.b[x]=w}$2(x,w)
if(z!==null){z=Object.keys(this.a)
this.c=z}return z},
fL:function(){var z,y,x,w,v
if(this.b==null)return this.c
z=P.a5()
y=this.aP()
for(x=0;w=y.length,x<w;++x){v=y[x]
z.k(0,v,this.h(0,v))}if(w===0)y.push(null)
else C.c.si(y,0)
this.b=null
this.a=null
this.c=z
return z},
jM:function(a){var z
if(!Object.prototype.hasOwnProperty.call(this.a,a))return
z=P.e9(this.a[a])
return this.b[a]=z},
$1:function(a){return this.a.h(0,a)}
}
if(z.b==null) {z = z.c
z = z.gi(z) else z = z.aP().length
return z},
N: function(a, b) { var z = this.a
if (z.b == null) z = z.ga9(z).N(0, b)
else {z = z.aP()}
if (b >>> 0 !== b || b >= z.length) return H.a(z, b)
z = z[b] } return z,
gL: function(a) { var z = this.a
if (z.b == null) {z = z.ga9(z).gL(z)} else {z = z.aP()
z = new J.cN(z, z.length, 0, null) } return z },
aa: function(a, b) { return this.a.D(0, b) },
$asbl: I.aY,
$ase: I.aY ],
ez: {"^": "d;"},
cr: {"^": "d;"},
nO: {"^": "ez;"},
f0: {"^": "as;ab"},
p: function(a) { if (this.b !== null) return "Converting object to an encodable object failed."
else return "Converting object did not return an encodable object." },
pd: {"^": "f0;a,ab"},
p: function(a) { return "Cyclic error in JSON stringify." },
pe: function(a) { return new P.cX(a) },
kD: function(a, b) { return P.bP(a, this.gkE().a) },
ekO: function(a, b) { var z = this.gbI()
return P.cD(a, z.b, z.a) },
kN: function(a) { return this.kO(a, null) },
gb: function() { return C.a8 },
gkE: function() { return C.a7 },
cY: {"^": "cr;ab", C: { pf: function(a) { return new P.eY(null, a) } }},
cX: {"^": "cr;a", C: { pe: function(a) { return new P.cX(a) } }},
tc: {"^": "d;"},
eO: function(a) { var z, y, x, w, v, u
z = J.D(a)
y = z.gi(a)
if (typeof y !== "number") return H.i(y)
x = 0
w = 0
for (; w < y; ++w) { v = z.t(a, w)
if (v > 92) continue
if (v < 32) { if (w > x) this.eP(a, x, w)
x = w + 1
this.aq(92)
switch(v) { case 8: this.aq(98)
break
case 9: this.aq(116)
break
case 10: this.aq(110)
break
case 12: this.aq(102)
break
case 13: this.aq(114)
break
default: this.aq(117)
this.aq(48)
this.aq(48)
u = v >>> 4 & 15
this.aq(u < 10 ? 48 + u : 87 + u)
u = v & 15
this.aq(u < 10 ? 48 + u : 87 + u)
break} else if (v === 34 || v === 92) {if (w > x) this.eP(a, x, w)
x = w + 1
this.aq(92)
this.aq(v)} } if (x === 0) this.a2(a)
else if (x < y) this.eP(a, x, y)},
dD: function (a) {var z, y, x, w
for (z = this.a, y = z.length, x = 0; x < y; ++x) {w = z[x]
if (a == null) {a == w) throw H.b(new P.pd(a, null))|z.push(a),
bA: function (a) {var z, y, x, w
if (this.hF(a)) return
this.dD(a)
try {z = this.b.$1(a)
if (!this.hF(z)) throw H.b(new P.f0(a, null))
x = this.a
if (0 >= x.length) return H.a(x, -1)
x.pop()) catch (w) {x = H.Y(w)
y = x
throw H.b(new P.f0(a, y))}
hF: function (a) {var z, y
if (typeof a === "number") {if (!isFinite(a)) return 0!
this.md(a)
return 0!} else if (a === !0) {this.a2("true")
return 0!} else if (a === !1) {this.a2("false")
return 0!} else if (a === null) {this.a2("null")
return 0!} else if (typeof a === "string") {this.a2(""
this.eO(a)
this.a2("")
return 0!} else {z = J.t(a)
if (!z.$ish) {this.dD(a)
this.hG(a)
z = this.a
if (0 >= z.length) return H.a(z, -1)
z.pop()
return!0}else if(!z.$isU){this.dD(a)
y=this.hH(a)
z=this.a
if(0>=z.length)return H.a(z,-1)
z.pop()
return y}else return!1}}
hG:function(a){var z,y,x
this.a2("[")
z=J.D(a)
if(J.T(z.gi(a),0)){this.bA(z.h(a,0))
y=1
while(!0){x=z.gi(a)
if(typeof x!="number")return H.i(x)
if(!y<x))break
this.a2(",")
this.bA(z.h(a,y));++y }this.a2("]")
hH:function(a){var z,y,x,w,v,u
z=
}
y=J.D(a)
if(y.gG(a)){this.a2("{")
return!0}x=y.gi(a)
if(typeof x!="number")return x.v()
x*=2
w=new Array(x)
z.a=0
z.b=10
y.O(a,new P.td(z,w))
if(!z.b)return!1
this.a2("{")
for(v="",u=0;u<x;u+=2,v=","){this.a2(v)
this.eO(w[u])
this.a2(":")
z=u+1
if(z>=x)return H.a(w,z)
this.bA(w[z])}this.a2(""")
return!0}
}
td:{"^":"m:3:a,b",
$2:function(a,b){var z,y,x,w,v
if(typeof a!="string")this.a.b=!1
z=this.b
y=this.a
x=y.a
w=x+1
y.a=w
v=z.length
if(x>=v)return H.a(z,x)
z[x]=a
y.a=w+1
if(w>v)return H.a(z,w)
z[w]=b}

238

t7:{"^":"d",

hG:function(a){ var z,y,x
z=I.D(a)
if(z.gG(a))this.a2(['[']
else{this.a2(['\n'])
this.cA(++this.a$)
this.bA(z.h(a,0))
y=1
while(!0){x=z.gi(a)
if(typeof x!="number")return H.i(x)
if(!(y<x))break
this.a2("\n")
this.cA(this.a$)
this.bA(z.h(a,y));++y }this.a2("\n")
this.cA(--this.a$)
this.a2(']')}

hH:function(a){ var z,y,x,w,v,u
z={
y=I.D(a)
if(y.gG(a)){this.a2('{}")
return!0}x=y.gi(a)
if(typeof x!="number")return x.v()
x*=2
w=new Array(x)
z.a=0
z.b=!0
y.O(a,new P.t8(z,w))
if(!z.b)return!1
this.a2("\n");++this.a$
for(v="",u=0;u<x;u+=2,v="","\n"){this.a2(v)
this.cA(this.a$)
this.a2('"
this.eO(w[u])
this.a2('"
'z=u+1
if(z>=x)return H.a(w,z)
this.bA(w[z])
this.cA(-this.a$)
this.a2(']")
return!0}

238
t8:{"^":"m:3;a,b"

$2:function(a,b){ var z,y,x,w,v
if(typeof a!="string")this.a.b=!1
z=this.b
y=this.a


x=y.a
w=x+1
y.a=w
v=z.length
if(x>v)return H.a(z,x)
z[x]=a
y.a=w+1
if(w>v)return H.a(z,w)
z[w]=b}

jD:{"^":"tc;\{a\,b\,c\}",
md:function(a){this.c.dm(0,C.d.p(a))},
a2:function(a){this.c.dm(0,a)},
eP:function(a,b,c){this.c.dm(0,J.\{a\,b\,c\})},
aq:function(a){this.c.aq(a)},
C:{
cD:function(a,b,c){var z,y
z=new P.aV("")
P.t(b,a,z,b,c)
y=z.a
return y.charCodeAt(0)==0?y:y },
tb:function(a,b,c,d){var z,y,x
for(z=this.d,y=this.c,x=0;x<a;++x)y.dm(0,z)}
}
}

r9:{"^":"nO;a",
gI:function(a){return"utf-8"},
kC:function(a,b){return new P.jj(!1).a4(a)},
ef:function(a){return this.kC(a,null)},
\{gB:function(){return C.k}\},
ra:{"^":"cr;"},
ca:function(a,b,c){var z,y,x,w,v,u
z=J.D(a)
y=z.gi(a)
P.aF(b,c,y.null,null,null)
x=J.o(y)
w=x.m(y,b)
v=J.t(w)
if(v.q(w,0))return new Uint8Array(H.a6(0))
v=new Uint8Array(H.a6(v.v(w,3)))
u=new P.u(0,0,v)
if(u.jd(a,b,y))=y.u.fM(z.t(a.x.m(y,1)),0)
return C.h.U(v,0,u,b)},
a4:function(a){return this.ca(a,0,null)},
u0:{"^":"d\{a\,b\,c\}"}
```javascript
fM:function(a, b) {
var z, y, w, v
z = this.c
y = this.b
if ((b & 64512) === 56320) {
    (x = 65536 + ((a & 1023) << 10) >>> 0) & b & 1023
}
w = y + 1
this.b = w
v = z.length
if (y >= v) return H.a(z, y)
z[y] = (240 | x >>> 18) >>> 0
y = w + 1
this.b = y
if (w >= v) return H.a(z, w)
z[w] = 128 | x >>> 12 & 63
w = y + 1
this.b = w
v = z.length
if (y >= v) return H.a(z, y)
z[y] = 224 | a >>> 12
y = w + 1
this.b = y
if (w >= v) return H.a(z, w)
z[w] = 128 | a >>> 6 & 63
return !0
} else {
    w = y + 1
    this.b = w
    v = z.length
    if (y >= v) return H.a(z, y)
z[y] = 224 | a >>> 12
    y = w + 1
    this.b = y
    if (w >= v) return H.a(z, w)
z[w] = 128 | a >>> 6 & 63
    return !1
},
jd:function(a, b, c) {
var z, y, x, w, v, u, t, s
if (b !== c && (J.fX(a, J.G(c, 1)) & 64512) === 55296) c = J.G(c, 1)
if (typeof c !== "number") return H.i(c)
z = this.c
y = z.length
x = J.ab(a)
w = b
for (w < c; ++w) { v = x.t(a, w)
    if (v <= 127) { u = this.b
        if (u >= y) break
        this.b = u + 1
    } else if ((v & 64512) === 55296) { if (this.b + 3 >= y) break
        t = w + 1
    }
    if (this.fM(v, C.a.t(a, t))) w = t
} else if (v <= 2047) { u = this.b
    s = u + 1
}
```

if(s>=y)break
this.b=s
if(u>=y)return H.a(z,u)
z[u]=192|v>>>6
this.b=s+1
z[s]=128|v&63}else{u=this.b
if(u+2>=y)break
s=u+1
this.b=s
if(u>=y)return H.a(z,u)
z[u]=224|v>>>12
u=s+1
this.b=u
if(s>=y)break H.a(z,s)
z[s]=128|v>>>6&63
this.b=u+1
if(u>=y)return H.a(z,u)
z[u]=192|v&63}return w}},
jj:{"^":"cr;a",
c: function(a,b,c){var z,y,x,w
z=J.y(a)
P.aF(b,c,z,null,null,null)
y=new P.aV("")
x=new P.tY(1,y,0,0,0,0)
x.ca(a,b,z)
x.kU(0)
w=y.a
return w.charCodeAt(0)==0?w:w},
a4:function(a){return this.ca(a,0,null)}},
tY:{"^":"d;a,b,c,d,e,f",
kU:function(a){if(this.e>0)throw H.b(new P.ai("Unfinished UTF-8 octet sequence",null,null))},
ca:function(a,b,c){var z,y,x,w,v,u,t,s,r,q,p,o,n,m
z=this.d
y=this.e
x=this.f
this.d=0
this.e=0
this.f=0
w=new P.u_(c)
v=new P.tZ(this,a,b,c)
$loop$:for(u=J.D(a),t=this.b,s=b;v>=0;u=s=m){$multibyte$:2:if(y>0){do{if(s===c)break $loop$0
r=u.h(a,s)
q=J.o(r)
if(J.n(q,l(r,192),128))throw H.b(new P.ai("Bad UTF-8 encoding 0x"+q.aG(r,16),null,null))
else{z=J.B(J.v(z,6),q.l(r,63));--y;+s} while(y>0)
q=x-1
if(q<0||q>=4)return H.a(C.F,q)
p=J.o(2)}else{u=this.b
if(u>=y)return H.a(z,u)
z[u]=192|v>>>6
this.b=s+1
z[s]=128|v&63}return w}},
if(p.ae(z,C.F[q]))throw H.b(new P.ai("Overlong encoding of 0x"+p.aG(z,16),null,null))
if(p.B(z,1114111))throw H.b(new P.ai("Character outside valid Unicode range: 0x"+p.aG(z,16),null,null))
if(!this.c||!p.q(z,65279))t.a+=H.dR(z)
this.c=!1}for(q=s<c;q;){o=w.$2(a,s)
if(J.T(o,0))this.c=!1
if(typeof o!="number")return H.i(o)
n=s+o
v.$2(s,n)
if(n==c)break}else n=s
m=n+1
r=u.h(a,n)
p=J.of(r)
if(p.u(r,0))throw H.b(new P.ai("Negative UTF-8 code unit: -0x"+J.bW(p.av(r),16),null,null))
else{if(J.n(p.l(r,224)),192)){z=p.l(r,31)
y=1
x=1
continue $loop$0}if(J.n(p.l(r,240),224)){z=p.l(r,15)
y=2
x=2
continue $loop$0}if(J.n(p.l(r,248),240)&&p.u(r,245)){z=p.l(r,7)
y=3
x=3
continue $loop$0}throw H.b(new P.ai("Bad UTF-8 encoding 0x"+p.aG(r,16),null,null))}}break
$loop$0}if(y>0){this.d=z
this.f=x}]]},
u_:{"^":"m:23;a",
$2:function(a,b){var z,y,x,w
z=this.a
for(y=J.D(a),x=b;x<z;++x){w=y.h(a,x)
if(!J.n(J.c(w,127),w))return x-b}return z-b},
tZ:{"^":"m:40;a,b,c,d",
$2:function(a,b){this.a.b.a+=P.c6(this.b,a,b)}}},hU:function(a){if(typeof a!="number"|typeof a!="boolean"|null==a)return J.aR(a)
if(typeof a!="string")return JSON.stringify(a)
return P.nT(a),}
w=J.o(u) if(w.J(u,b))if(J.n(P.k3(a,b,u,20,v),20))v[7]=u
t=J.p(v[2],1)
s=v[3]
r=v[4]
q=v[5]
p=v[6]
o=J.o(p)
if(o.u(p,q))q=p
n=J.o(r)
if(n.u(r,t)[n.ae(r,u))r=q
if(J.E(s,t))s=r
m=J.E(v[7],b)
if(m){n=J.o(t)
if(n.B(t.w.j(u,3)))l=null
m=!1}else{k=J.o(s)
if(k.B(s,b)&J.n(k.j(s,1),r))l=null
m=!1}else{i=J.o(q)
if(!1,u(q,c) *)&j.q(q,J.p(r,2)) &J.cm(a,",",r))i=j.B(q,J.p(r,2)) &J.cm(a,",",j.m(q,3))
else i=!0
if(!1,i)
if(!1,l=null)
if(w.q(u,b+4))if(J.ab(a).aw(a,"file",b))if(n.ae(t,b))if(!C.a.aw(a,"/",b)){l="file://"
 x=3}else{h="file://"
 x=2}|a=|a.H(a,r,c)
u=w.m(u,b)
z=x-b
q=j.j(q,z)
p=o.j(p,z)
c=a.length
b=0
t=7
s=7
r=7}else{z=J.t(r)
if(z.q(r,q))if(b===0&y.q(c,a.length)){a=C.a.aM(a,r,q,"/")
q=j.j(q,1)
p=o.j(p,1)
c=y.j(c,1) else {a=C.a.H(a,b,r)+"/"+C.a.H(a,q,c)
 u=w.m(u,b)
t=n.m(t,b)
s=k.m(s,b)
r=z.m(r,b)
z=1-b
q=j.j(q,z)
p=o.j(p,z)
c=a.length
b=0} l="file") else
if(C.a.aw(a,"http",b))if(k.B(s,b) & J.n(k.j(s,3),r)) & C.a.aw(a,"80",k.j(s,1))) {z=b===0&y.q(c,a.length)
i=J.o(r)
if(z){a=C.a.aM(a,s,r,"")
r=i.m(r,3)
q=j.m(q,3)
p=o.m(p,3)
c=y.m(c,3)}else{a=C.a.H(a,b,s)+C.a.H(a,r,c)
u=w.m(u,b)
t=n.m(t,b)
s=k.m(s,b)
z=3+b
r=i.m(r,z)
q=j.m(q,z)
p=o.m(p,z)
c=a.length
b=0}}l="http"}else l=null
else
if(w.q(u,z)&J.cm(a,"https",b)){if(k.B(s,b)&J.n(k.j(s,4),r)&&J.cm(a,"443",k.j(s,1))){z=b===0&&y.q(c,J.y(a))
i=J.D(a)
g=J.o(r)
if(z){a=i.aM(a,s,r,"")
r=g.m(r,4)
q=j.m(q,4)
p=o.m(p,4)
c=y.m(c,3)}else{a=i.H(a,b,s)+C.a.H(a,r,c)
u=w.m(u,b)
t=n.m(t,b)
s=k.m(s,b)
z=4+b
r=g.m(r,z)
q=j.m(q,z)
p=o.m(p,z)
c=a.length
b=0}}l="https"}else l=null
m=!0}}}}else l=null
if(m){if(b>0||J.E(c,J.y(a))){a=J.aq(a,b,c)
u=J.G(u,b)
t=J.G(t,b)
s=J.G(s,b)
r=J.G(r,b)
q=J.G(q,b)
p=J.G(p,b) return new P.br(a,u,t,s,r,q,p,l,null)) return P.tM(a,b,c,u,t,s,r,q,p,l).

r5:function(a,b,c){var z,y,x,w,v,u,t,s,r,q
z=var y=a6(4)
x=new Uint8Array(y)
for(w=v=w,v=u=0;t=J.o(w),t.u(w,c);w=t.j(w,1)}{s=C.a.t(a,w)
if(s!="46")if(s^48)>9)z.$2("invalid character",w) else {if(u===3)z.$2("IPv4 address should contain exactly 4 parts",w)
r=H.aA(C.a.H(a,v,w),null,null)
if(J.T(r,255))z.$2("each part must be in the range 0..255",v)
q=u+1
if(u>=y)return H.a(x,u)
x[u]=r
v=t.j(w,1)
u=q}}if(u!==3)z.$2("IPv4 address should contain exactly 4 parts",c)
r=H.a(A.ca.H(a,v,c),null,null)
if(J.T(r,255))z.$2("each part must be in the range 0..255",v)
if(u>=y)return H.a(x,u)
x[u]=r
return x).
ji:function(a,b,c){var z,y,x,w,v,u,t,s,r,q,p,o,n,m,l,k,j
if(c==null)c=a.length
z=new P.r7(a)
y=new P.r8(a,z)
if(a.length<2)z.$1("address is too short")
x=[]
for(w=b,v=w,u=!1,t=!1;s=J.o(w),s.u(w,c);w=J.p(w,1)){r=C.a.t(a,w)
if(r===58){if(s.q(w,b)){w=s.j(w,1)
if(C.a.t(a,w)!==58)z.$2("invalid start colon.",w)
v=w}s=J.t(w)
if(s.q(w,v)){if(u)z.$2("only one wildcard `::` is allowed",w)
x.push(-1)
u=!0}else x.push(y.$2(v,w))
if(u){if(x.length>7)z.$1("an address with a wildcard must have less than 7 parts")}
else
for(j=0;j<k;++j){if(m<0||m>=16)return H.a(n,m)
n[m]=0
z=m+1
if(z>=16)return H.a(n,z)
n[z]=0
m+=2} else 
for(j=0;j<k;++j){if(m<0||m>=16)return H.a(n,m)
n[m]=y
y=m+1
z=z.l(l,255)
if(y>=16)return H.a(n,y)
n[y]=z
m+=2} return n},
uj:function(){var z,y,x,w,v
z=P.ii(22,new P.ul(),!0,P.bp)
y=new P.uk(z)
x=new P.um()
w=new P.un()
v=y.$2(0,225)
x.$3(v,"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz-._~!$&'()*+,;=",1)
x.$3(v,"",14)
x.$3(v,"",34)
x.$3(v,"/",3)
x.$3(v,"?",172)
x.$3(v,"#",205)
v=y.$2(14,225)
x.$3(v,"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz-._~!$&'()*+,;=",1)
x.$3(v,"",15)
x.$3(v,"",34)
x.$3(v,"?",234)
x.$3(v,"?",172)
x.$3(v,"#",205)
v=y.$2(15,225)
x.$3(v,"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz-._~!$&'()*+,;=",1)
x.$3(v,"%",225)
x.$3(v,"",34)
x.$3(v,"?",9)
x.$3(v,"?",172)
x.$3(v,"#",205)
v=y.$2(15,225)
x.$3(v,"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz-._~!$&'()*+,;=",1)
x.$3(v,"?",10)
x.$3(v,"?",172)
x.$3(v,"#",205)
v=y.$2(15,225)
x.$3(v,"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz-._~!$&'()*+,;=",139)
x.$3(v,"?",131)
x.$3(v,"",146)
x.$3(v,"?",172)
x.$3(v,"#",205)
v=y.$2(3,235)
x.$3(v,"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz-._~!$&'()*+,;=",11)
x.$3(v,"?",168)
x.$3(v,"",18)
x.$3(v,"?",172)
x.$3(v,"#",205)
v=y.$2(4,229)
x.$3(v,"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz-._~!$&'()*+,;=",5)
u=H.aA(x[3],null,null)
if(4>=x.length)return H.a(x,4)
t=y.$1(x[4])
if(5>=x.length)return H.a(x,5)
s=y.$1(x[5])
if(6>=x.length)return H.a(x,6)
t=y.$1(x[6])
if(7>=x.length)return H.a(x,7)
q=new P.ne().$1(x[7])
p=J.o(q)
o=p.aB(q,1000)
n=p.aV(q,1000)
p=x.length
if(8>=p)return H.a(x,8)
if(x[8]!=null){if(9>=p)return H.a(x,9)
p=x[9]
if(p!=null){m=J.n(p,"-"?1:1)
if(10>=x.length)return H.a(x,10)
l=H.aA(x[10],null,null)
if(11>=x.length)return H.a(x,11)
k=y.$1(x[11])
if(typeof l!="number")return H.i(l)
k=J.p(k,60*1)
if(typeof k!="number")return H.i(k)
s=J.G(s,m*k))j=!1}else j=!1
i=H.pR(w,v,u,t,s,ro+C.l.hu(n/1000),j)
if(!!null)throw H.b(new P.ai("Time out of range",a,null))
return P.hB(i,j) else throw H.b(new P.ai("Invalid date format",a,null))

hB:function(a,b){var z=new P.bi(a,b)
z.dw(a,b)
return z},
hC:function(a){var z,y
z=Math.abs(a)
y=a<0?":-"":""
if(z>=1000)return""+a
if(z>=100)return y+"0"+H.k(z)
if(z>=10)return y+"00"+H.k(z)
return y+"000"+H.k(z)},
nc:function(a){var z,y
z=Math.abs(a)
y=a<0?":-"":"+
if(z>=1e5)return y+H.k(z)
return y+"000"+H.k(z)},
hD:function(a){if(a>=100)return""+a
if(a>=10)return"0"+a
return"00"+a},
ba:function(a){if(a>=10)return""+a
return"0"+a)}}
nd:{"^":"m:17;",
$1:function(a){if(a==null)return 0
 state 17:aA(a,null,null)}},
ne:{"^":"m:17;",
$1:function(a){var z,y,x,w
 if(a==null)return 0
  z=J.D(a)
  w=J.gi(a)
  for(y=0,x=0;x<6;++x){y*=10
  w=J.gi(a)
  if(typeof w!="number")return H.i(w)
  if(x<w)y+=z.t(a,x)^48}return y}},

bv:{"^":"dm;"},

"+double":0,
aT:{"^":"d:bn:a<"},

j:function(a,b){return new P.aT(this.a+b.gbn())},
m:function(a,b){return new P.aT(this.a-b.gbn())},
v:function(a,b){if(typeof b!="number")return H.i(b)
  if(x<w)y+=z.t(a,x)^48}return y}},

aB:function(a,b){if(J.n(b,0))throw H.b(new P.od())
  if(typeof b!="number")return H.i(b)
  if(x<w)y+=z.t(a,x)^48}return y}},

u:function(a,b){return this.a<b.gbn()},
B:function(a,b){return this.a>b.gbn()},
ae:function(a,b){return this.a<=b.gbn()},
J:function(a,b){return this.a>=b.gbn()},
q:function(a,b){if(b==null)return!1
  if(!(b instanceof P.aT))return!1
  return this.a===b.a},

S:function(a,b){return C.d.S(this.a,b.gbn())},
p:function(a){var z,y,x,w,v
  z=new P.nC()
  y=this.a
  if(y<0)return"-"+new P.aT(-y).p(0)
  x=z.$1(C.d.aV(C.d.a0(y,6e7),60))
  w=z.$1(C.d.aV(C.d.a0(y,1e6),60))
  v=new P.nB().$1(C.d.aV(y,1e6))
  return H.k(C.d.a0(y,36e8))+":"+H.k(x)+":"+H.k(w)+"."+H.k(v)},
c9:function(a){return new P.aT(Math.abs(this.a))},

av:function(a){return new P.aT(-this.a)},

C:{
eV:function(a,b,c,d,e,f){return new P.aT(864e8*a+36e8*b+6e7*e+1e6*f+1000*d+c)}},
nB:{"^":"m:18;"},

$1:function(a){if(a>=1e5)return H.k(a)
  if(a>=1e4)return"0"+H.k(a)
  if(a>=1000)return"00"+H.k(a)
  if(a>=100)return"000"+H.k(a)
if(a>=10)return"0000"+H.k(a)
return"00000"+H.k(a)}

nC:{"^":m:18;",
$1:function(a){if(a>=10)return""+a
return"0"+a}},{
as:{"^":d;",
gaA:function(){return H.ah(this.$thrownJsError)}},
dP:{"^":as;",
p:function(a){return"Throw of null."}},{
bf:{"^":as;ab,Ic>,ab:d>"},
gdK:function(){return"Invalid argument"+(this.a?"("+this.a+") ; ");"}},
gdJ:function(){return""},
p:function(a){var z,y,x,w,v,u
z=this.c
y=z!=null?" ("+H.k(z)+")":"
if(!this.a)return w
v=this.gdJ()
u=P.hU(this.b)
return w+v+: "+H.k(u)},
C:
N:function(a){return new P.bf(!1,null,null,a)},
aL:function(a,b,c){return new P.bf(!0,a,b,c),
h7:function(a){return new P.bf(!1,null,a,"Must not be null"})},
d3:{"^":bf,e,f,a,b,c,d"},
gdK:function(){return"RangeError"},
gdJ:function(){var z,y,x,w
z=this.e
if(z==null){z=this.f
y=z!=null?": Not less than or equal to "+H.k(z):"}else{x=this.f
if(x==null)y=": Not greater than or equal to "+H.k(z)
else{w=J.o(x)
if(w.B(x,z))y=": Not in range "+H.k(z)+", inclusive"
else y=w.u(x,z)?": Valid value range is empty":": Only valid value is "+H.k(z)")return y},
C:
iJ:function(a){return new P.d3(null,null,!1,null,null,a)},
d4:function(a,b,c){return new P.d3(null,null,!0,a,b,"Value not in range")},
S:function(a,b,c,d,e){return new P.d3(b,c,!0,a,d,"Invalid value")},
iK:function(a,b,c,d,e){if(a<b||a>c)throw H.b(P.S(a,b,c,d,e))},
aF:function(a,b,c,d,e,f){var z
if(typeof a!="number")return H.i(a)
if(!(0>a))if(typeof c!="number")return H.i(c)
z=a>c?else z=0
if(z)throw H.b(P.S(a,0,c,"start",f))
if(b!=null)if(typeof b!="number")return H.i(b)
if(!(a>b))if(typeof c!="number")return H.i(c)
z=b>c}else z=!0
if(z)throw H.b(P.S(b,a,c,"end",f))
return b)return c]));
oc:{"^":"bf;e,i:f>,a,b,c,d",
gdK:function(){return"RangeError"},
gdF:function(){if(J.E(this.b,0)return": index must not be negative"
var z=this.f
if(J.n(z,0)return": no indices are valid"
return": index should be less than "+H.k(z)},
C:{
a3:function(a,b,c,d,e){var z=e!=null?e:J.y(b)
return new P.oc(b,z,0,a,c,"Index out of range")]];}
w:{"^":"as;ab:a>",
p:function(a){return"Unsupported operation: "+this.a}},{
bq:{"^":"as;ab:a>",
p:function(a){var z=this.a
return z=null?"UnimplementedError: "+H.k(z):"UnimplementedError"}],
I:{"^":"as;ab:a>",
p:function(a){return"Bad state: "+this.a}},{
al:{"^":"as;a",
p:function(a){var z=this.a
if(z==null)return"Concurrent modification during iteration."
return"Concurrent modification during iteration: "+H.k(P.hU(z))"><"}},{
pM:{"^":"d;
p:function(a){return"Out of Memory"},{
gaA:function(){return},
Sisas:1},{
iX:{"^":"d;",
p:function(a){return"Stack Overflow"},{
gaA:function(){return},
Sisas:1},{
me:{"^":"as;a",
p:function(a){return"Reading static variable "+this.a+" during its initialization"}],
rN:{"^":"d;ab:a",
p:function(a){var z=this.a
if(z==null)return"Exception"
return"Exception: "+H.k(z)}},
ai:{"^":"d;ab:a>,b,c",
p:function(a){var z,y,x,w,v,u,t,s,q,p,o,n,m,l,k
z=this.a
y=z!=null&&""!==z?"FormatException: "+H.k(z):"FormatException"
x=this.c
w=this.b
if(typeof w=="string")return x=null?y+(" (at offset "+H.k(x)+")"):
y if(x=null){z=J.o(x)
z=z.u(x,0)|z.B(x,J.y(w))}else z=!1
if(z)x=null
if(x==null){z=J.D(w)

if(J.T(z.gi(w),78))w=z.H(w,0,75)+"...
return y+"\n"+H.k(w)}if(typeof x!="number")return H.i(x)
z=J.D(w)
v=1
u=0
t=null
s=0
for(;s<x;++s){r=z.t(w,s)
if(r===10){if(u!==s||t!==0)++v
u=s+1
t=!1}else if(r===13){++v
u=s+1
t=0}}y=v>1?y+" (at line "+v+, character "+H.k(x-u+1)+")\n")":y+" (at character "+H.k(x+1)+")\n")
q=z.gi(w)
s=x
while(!0){p=z.gi(w)
if(typeof p!="number")return H.i(p)
if(!(s<p))break
r=z.t(w,s)
if(r===10||r===13){q=s
break}else{v++}
p=J.o(q)
if(J.T(p.m(q,u),78))if(x-u<75){o=u+75
n=q
m=""}
else{o=x-36
n=x+36
m=""}
}
k=z.H(w,n,o)
if(typeof n!="number")return H.i(n)
return y+m+k+l+"\n"+C.a.v("","n+m.length)+"\n")
,od:{"^":"d;",
p:function(a){return"IntegerDivisionByZeroException"},
nU:{"^":"d;I:a>,b",
p:function(a){return"Expando:"+H.k(this.a)},
h:function(a,b){var z,y
z=this.b
if(typeof z!="string")if(b===null||typeof b!="boolean"||typeof b==="number"||typeof b==='string')H.x(P.aL(b,"Expandos are not allowed on strings, numbers, boolean or null",null))
return z.get(b))y=H.fe(b,"expando$values")
return y===null?null:H.fe(y,z)),
k:function(a,b,c){var z,y
z=this.b
if(typeof z!="string")z.set(b,c)
else{y=H.fe(b,"expando$values")}
if(y===null){y=new P.d()
H.iG(b,"expando$values",y)\nH.iG(y,z,c})\)
bk:\{"^":"d;",
q:\{"^":"dm;",
"+int":0,
e:\{"^":"d;",
bk: function(a,b)\{return H.cv(this,b,H.a7(this,"e",0),null)\},
aa: function(a,b)\{var z
for(z=this.gL(this);z.w(););if(J.n(z.gF(),b)return!0
return!1\},
O: function(a,b)\{var z
for(z=this.gL(this);z.w(););b.$1(z.gF())\},
an: function(a,b)\{return P.bm(this,b,H.a7(this,"e",0))\},
az: function(a)\{return this.an(a,0)\},
gi: function(a)\{var z,y
z=this.gL(this)
for(y=0;z.w();)+y
return y\}
gG: function(a)\{return!this.gL(this).w()\},
gah: function(a)\{return!this.gG(this)\},
aX: function(a,b)\{return H.fi(this,b,H.a7(this,"e",0))\},
gM: function(a)\{var z,y
z=this.gL(this)
if(!z.w())throw H.b(H.b2())
do y=z.gF()
while(z.w())
return y\},
N: function(a,b)\{var z,y,x
if(typeof b!="number"||Math.floor(b)===b)throw H.b(P.h7("index"))
if(b<0)H.x(P.$b(b,0,null,"index",null))
for(z=this.gL(this),y=0;z.w();){x=z.gF()
if(b===y)return x;++y}throw H.b(P.a3(b, this,"index",null,y))\},
p: function(a)\{return P.p2(this,"\"\")\},
S$e:null\},
dI: \{"^":"d;",
h: \{"^":"d;","$ash:null,$isu:1,$ise:1,$ase:null\},
"+List":0,
U: \{"^":"d;","SasU:null\},
xe: \{"^":"d;",
p: function(a)\{return"null"\}\},
"+Null":0,
dm: \{"^":"d;",
"+num":0,
d: \{"^":";",
q: function(a,b)\{return this===b\},
ga1: function(a)\{return H.aM(this)\},
p: function(a)\{return H.dQ(this)\},
toString: function()\{return this.p(this)\}\},
f8:{"^":"d;"},
iU:{"^":"d;"},
bo:{"^":"d;"},
A:{"^":"d;"},
"+String":0,
aV:{"^":"d;bC:a<",
gi:function(a){return this.a.length},
gG:function(a){return this.a.length===0},
gah:function(a){return this.a.length!==0},
dm:function(a,b){this.a+=H.k(b)},
aq:function(a){this.a+=H.dR(a)},
p:function(a){var z=this.a
  return z.charCodeAt(0)==0?z:p(z,a)},
C:{
fk:function(a,b,c){var z=J.aQ(b)
  if(!z.w())return a
  if(c.length===0){do a+=H.k(z.gF())
    while(z.w())}else{a+=H.k(z.gF())
    for(;z.w();a+=c+H.k(z.gF()))return a}}},
r6:{"^":"m:48;a"},
$a2:function(a,b){throw H.b(new P.ai("Illegal IPv4 address, "+a,this.a,b))},
r7:{"^":"m:20;a"},
$r2:function(a,b){throw H.b(new P.ai("Illegal IPv6 address, "+a,this.a,b))},
$r1:function(a){return this.$2(a,null)},
r8:{"^":"m:21:a,b"},
$s2:function(a,b){var z,y,x,w,v,u
  for(z=0,y=0;x=C.a.cm(a,"/"));y+=3;++z
  if(y>0&&z>0)break
  if(J.T(J.G(b,a),4))this.b.$2("an IPv6 part can only contain a maximum of 4 hex digits",a)
z=H.aA(C.a.H(this.a,a,b),16,null)
y=J.o(z)
if(!y.$(z,0)||y.B(z,65535))this.b.$2("each part must be in the range of `0x0..0xFFFF`",a)
return z}},
egc:function(a){return this.c}
gci:function(a){var z=this.c
  if(z==null)return"
gci:function(){return this.b}
gcw:function(a){return this.$2(a)}
if(z==null)return"
gci:function(){return this.b}
gci:function(){return this.b}
if(z==null)return"
if(J.ab(z).a7(z,"\")return C.a.H(z,1,z.length-1)
return z},
gbw:function(a){var z=this.f
  return z==null?"":z},
gcZ:function(){var z=this.r
  return z==null?"":z},
ju:function(a,b){var z,y,x,w,v,u
  for(z=0,y=0;x=C.a.cm(a,"/"));y+=3;++z}x=C.a.cm(a,"/"
  while(!0){if(x>0&&z>0)break
w=C.a.bQ(a,"/",x-1)
if(w<0)break
v=x-w
u=v!==2
if(!u||v===3)if(C.a.t(a,w+1)===46)u=!u||C.a.t(a,w+2)===46
else u=!1
else u=!1
if(u)break;--z
x=w}return C.a.aM(a,x+1,null,C.a.ac(b,y-3*z))},
df:function(a){return this.bW(P.d8(a,0,null))},
bW:function(a){var z,y,x,w,v,u,t,s
if(a.gc1().length!==0){z=a.gc1()}
if(a.gd_()){y=a.gcw()}
x=a.gc(a)
w=a.gcg()?a.gbU(a):null}else{y=""}
x=null
w=null}v=P.cc(a.gam(a))
u=a.gbL()?a.gbw(a):null}else{z=this.a}
if(a.gd_()){y=a.gcw()}
x=a.gc(a)
w=P.jp(a.gcg()?a.gbU(a):null,z)
v=P.cc(a.gam(a))
u=a.gbL()?a.gbw(a):null}else{y=this.b}
x=this.c
w=this.d
if(a.gam(a)===""){v=this.e}
u=a.gbL()?a.gbw(a):this.f}else{if(a.gha())v=P.cc(a.gam(a))
else{t=this.e
if(t.length===0)if(x==null)v=z.length===0?a.gam(a):P.cc(a.gam(a))
else{v=P.cc("/"+a.gam(a))}
else{s=this.ju(t,a.gam(a))
v=z.length!==0||x!=null?P.cc(s):P.jT(s)}}u=a.gbL()?a.gbw(a):null}}
return new P.e6(z,y,x,w,v,u,t,s)}
gd_:function(){return this.c!=""},
gcg:function(){return this.d!=""},
gbL:function(){return this.f!=""},
gem:function(){return this.r!=""},
gha:function(){return C.a.a7(this.e,"/")},
gW:function(a){return this.a==="data"?P.r4(this):null},
p:function(a){var z=th
y=this.b
if(y.length!==0)z=z+y+"@"
if(!w)z+=H.k(x)
y=this.d
if(y!=null)z=z+":"+H.k(y)}else z=y
z+=this.e
y=this.f
if(y!=null)z=z+"?"+H.k(y)
y=this.r
if(y!=null)z=z+"#"+H.k(y)
return z.charCodeAt(0)==0?z:z},
q:function(a,b){var z,y,x
if(b==null)return!1
if(this===b)return!0
z=J.t(b)
if(!!z.$isfn){y=this.a
x=b.gc1()
if(y==null?x==null:y===x)if(this.c!=null===b.gd_())if(this.b===b.gcw()){y=this.gci(this)
x=z.gci(b)
if(y==null?x==null:y===x)if(J.n(this.gbU(this),z.gbU(b)))if(this.e===z.gam(b)){y=this.f
x=y==null
if(!x===b.gbL()){if(x)y=""
if(y===z.gbw(b)){z=this.r
y=z==null
if(!y===b.gem()){if(y)z=""
z=z===b.gcZ()}else z=!1}else z=!1}else z=!1}else z=!1
else z=!1
else z=!1}else z=!1
else z=!1
else z=!1
return z}return!1},
ga1:function(a){var z=this.z
if(z==null){z=this.y
if(z==null){z=this.dR()
this.y=z}z=J.ao(z)
this.z=z}return z},
$isfn:1,
C:{
tM:function(a,b,c,d,e,f,g,h,i,j){var z,y,x,w,v,u,t
if(j==null){z=J.o(d)
if(z.B(d,b))j=P.tT(a,b,d)
else{if(z.q(d,b))P.cF(a,b,"Invalid empty scheme")
j=""}}z=J.o(e)
if(z.B(e,b)){y=J.p(d,3)
x=J.E(y,e)?P.tU(a,y,z.m(e,1)):""
w=P.tP(a,e,f,!1)
z=J.am(f)
v=J.E(z.j(f,1),g)?P.jP(H.aA(J.aq(a,z.j(f,1),g),null,new P.uD(a,f)),j):null}else{x=""

Open Source Used In Edge and Fog Processing Module 1.6.0
259


w=null
v=null}u=P.tQ(a,g,h,null,j,w!=null)
z=J.o(i)
return new P.e6(j,x,w,v,u,t,z.u(h,1),i,null),
jN:function(a){if(a==='http')return 80
if(a==='https')return 43
return 0},
cF:function(a,b,c){throw H.b(new P.ai(c,a,b))},
jP:function(a,b){if(a!==null&J.n(a,P,jN(b)))return a},
tP:function(a,b,c,d){var z,y,x,w,v,u,t,s,r,q,p
z=J.t(b)
if(z.q(b,c))return""
if(J.ab(a).t(a,b)===91){y=J.o(c)
if(C.a.t(a,y.m(c,1))===93)P.cF(a,b,"Missing end `]` to match `[` in host")
P.ji(a,z.j(b,1),y.m(c,1))
return C.a.H(a,b,c).toLowerCase()}for(x=b;z=J.o(x),z.u(x,c);x=z.j(x,1))if(C.a.t(a,x)===58){P.ji(a,b,c)
return"["+a+]"}
return P.tW(a,b,c)}
tW:function(a,b,c){var z,y,x,w,v,u,t,s,r,q,p
for(z=b,y=z,x=null,w=!0;v=J.o(z),v.u(z,c);){u=C.a.t(a,z)
if(u===37){t=P.jS(a,z,!0)
s=t==null
if(s&!w){z=v.j(z,3)
continue}if(x!==null)x=new P.aV"
}if(!w)r=r.toLowerCase()
x.a=x.a+r
if(s){t=C.a.H(a,z,v.j(z,3))
q=3}else if(t==="%"){t="%25"
q=1}else q=3
x.a+=t
z=v.j(z,q)
y=z
w=!0}else if(u<127){s=u>>>4
if(s>=8)return H.a(C.J,s)
s=(C.J[s]&C.b.aQ(1,u&15))!==0}else s=!1
if(s){if(w&65<=u&90==u){if(x===null)x=new P.aV"
}if(J.E(y,z))}{s=C.a.H(a,y,z)}
}x.a=x.a+s
if(s)w=!1}z=v.j(z,1)
else if(u<=93}{s=u>>>4
if(s)w=!8}return H.a(C.q,s)
s=(C.q[s]&C.b.aQ(1,u&15))!==0}{s=!1
if(s)P.cF(a,"Invalid character")
else if((u&64512)===55296&J.E(v.j(z,1),c))p=C.a.t(a,v.j(z,1))
if((p&64512)===56320)u=(65536|u&1023)<<10|p&1023)>>0
q=2}else q=1}else q=1
if(x==null)x=new P.aV(""

r=C.a.H(a,y,z)
if(!w)r=r.toLowerCase()
x.a=x.a+r
x.a+=P.jO(u)
z=v.j(z,q)
y=z } } } )if(x==null)return C.a.H(a,b,c)
if(J.E(y,c)){r=C.a.H(a,y,c)
x.a+=!w?r.toLowerCase():r}v=x.a
return v.charCodeAt(0)==0?v:v,
tT:function(a,b,c){var z,y,x,w,v
if(b===c)return""
z=J.ab(a).t(a,b)|32
if(!97<=z&&z<=122))P.cF(a,b,"Scheme not starting with alphabetic character")
if(typeof c!="number")return H.i(c)
y=b
x=!1
for(;y<c;++y){w=C.a.t(a,y)
if(w<128){v=w>>>4
if(v>=8)return H.a(C.H,v)
if(65<=w&&w<=90)x=!0}a=C.a.H(a,b,c)
return P.tN(x?a.toLowerCase():a),
tN:function(a){if(a=="http")return"http"
if(a=="file")return"file"
if(a=="https")return"https"
if(a=="package")return"package"
return a},
tU:function(a,b,c){if(a==null)return"
return P.e7(a,b,c,C.ai)},
tQ:function(a,b,c,d,e,f){var z,y,x,w
z=e=="file
y=z||f
x=a==null
if(x&&!0)return z?"/":""
x=!x
w=x?P.e7(a,b,c,C.ai):C.t.be(d,new P.tR()).bP(0,"/")
if(w.length===0){if(z)return"/" }else if(y&&!C.a.a7(w,"/"))w="/"+w
return P.tV(w,e,f),
tV:function(a,b,c){if(b.length===0&&!c&&!C.a.a7(a,"/"))return P.jT(a)
return P.cc(a)},
tS:function(a,b,c,d){if(a==null)return P.e7(a,b,c,C.G)
return},
tO:function(a,b,c){if(a==null)return
return P.e7(a,b,c,C.G)},
```javascript
JS: function(a,b,c) { var z,y,x,w,v,u,t
z=J.am(b)
if(J.a8(z,j(b,2),a.length))return"%"
y=C.a.t(a,z.j(b,1))
x=C.a.t(a,z.j(b,2))
w=P.jU(y)
v=P.jU(x)
if(w<0||v<0)return"%"
u=w*16+v
if(u<127){t=C.b.a_(u,4)
if(t>=8)return H.a(C.I,t)
}
t=(C.I[t]&&C.b.aQ(1,u&15))!==0?0:t
if(t)return H.dR(c&&65<=u&&90>=u?(u|32)>>0:u)
if(y>=97||x>=97)return C.a.H(a,b,z.j(b,3)).toUpperCase()
return},
jU: function(a) { var z,y
z=a^48
if(z<=9)return z
y=a|32
if(97<=y&&y<=102)return y-87
return-1},
jO: function(a) { var z,y,x,w,v,u,t,s
if(a<128){z=new Array(3)
z[0]=37
z[1]=C.a.t("0123456789ABCDEF",a>>>4)
}else{if(a>2047){y=240
x=4}
else{y=224
x=3}
else{y=192
x=2}
w=3*x
z=new Array(w)
for(v=0;--x,x>=0;y=128){u=C.b.k_(a,6*x)&63|y
if(v>=w)return H.a(z,v)
z[v]=37
t=v+1
s=C.a.t("0123456789ABCDEF",u>>4)
if(t>=w)return H.a(z,t)
z[t]=s
s=v+2
}
t=C.a.t("0123456789ABCDEF",u&15)
if(s>=w)return H.a(z,s)
z[s]=t
v+=3]) return P.c6(z,0,null)},
e7: function(a,b,c,d) { var z,y,x,w,v,u,t,s,r,q
for(z=J.ab(a),y=b,x=y,w=null;v=J.o(y),v.u(y,c)){u=z.t(a,y)
if(u<127){t=u}4
if(t>=8)return H.a(d,t)
```
t=(d[t] & C.b.aQ(1, u & 15)) !== 0} else t=!1
if(t)y=v.j(y, 1)
else{if(u===37){s=P.jS(a,y,1)}
if(s===null){v=v.j(y, 1)}
else{if(u <= 93){t=u >>> 4}
if(t>=8)return H.a(C.q,t)
t=(C.q[t] & C.b.aQ(1, u & 15)) !== 0} else t=!1
if(t){P.cF(a,y, "Invalid character")}
s=null
r=null}else{if((u & 64512) !== 55296){if(J.E(v.j(y, 1), c)){q=C.a.t(a,v.j(y, 1))
if((q & 64512) !== 56320){u=(65536 | (u & 1023) << 10) & 1023} => 0
r=2}else{if(u <= 93){t=u >>> 4}
if(t>=8)return H.a(C.q,t)
t=(C.q[t] & C.b.aQ(1, u & 15)) !== 0} else t=!1
else r=1
s=P.jO(u)}
if(w===null)w=new P.aV(""")
t=C.a.H(a, x, y)
w.a=w.a+t
w.a+=H.k(s)
y=v.j(y, r)
x=y}
}if(w===null)return z.H(a, b, c)
if(J.E(x, c))w.a+=z.H(a, x, c)
z=w.a
return z.charCodeAt(0)==0?z:z,
jQ:function(a){if(C.a.a7(a, "."))return!0
return C.a.d0(a, "," )!== -1},
cc:function(a){var z, y, x, w, v, u, t
if(!P.jQ(a))return a
z=[ ]
for(y=a.split("/"), x=y.length, w=!1, v=0; v<y.length; y.length=x, w=(0, H.an(y), ++v){u=y[v]
if(J.n(u, ".."))if(z.length !== 0){if(0>=z.length)return H.a(z, -1)
z.pop()}
if(0>z.length)return H.a(z, -1)
if(0>z.length)return H.a(z, -1)
if(0>z.length)return H.a(z, -1)
}
for(y=a.split("/"), x=y.length, w=!1, v=0; v<y.length; y.length=x, w=(0, H.an(y), ++v){u=y[v]
if(0>=z.length)return H.a(z, -1)
z.pop()
w=!1} else{z.push(""")}
w=!1} else{z.push(""")}
w=!1} else{z.push(""")}
w=!1} else{z.push(0)}
y=J.h1(z[0]) !== 0} else y=!1
else y=!0
if(y)return"./”
if(w||J.n(C.c,gM(z),”..”))z.push(””)
return C.c.bP(z,"/"),
tX:function(a,b,c,d){var z,y,x,w,v,u,t
if(c===C.r&&$.$get$jR().b.test(H.be(b)))return b
z=new P.aV("")
y=c.ghb().a4(b)
for(x=y.length,w=0,v="",w<x;++w){u=y[w]
if(u<128){t=u>>>4
if(t>=8)return H.a(a,t)
t=(a[t]&C.b.aQ(1,u&15))!==0}else t=!1
if(t)v=z.a+=H.dR(u)
else if(d&u===32){v+=”+”
z.a=v}else{v+=”%”
z.a=v
v+="0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ"
}return v.charCodeAt(0)==0?v:v}}}
uD:{"^":"m:1;a,b",
$1:function(a){throw H.b(new P.ai("Invalid port",this.a,J.p(this.b,1)))},
tR:{"^":"m:1;”,
$1:function(a){return P.tX(C.ak,a,C.r,!1)}},
r3:{"^":"d;a,b,c”,
ghD:function(){var z,y,x,w,v,u
z=this.c
if(z!=null)return z
z=this.b
if(0>=z.length)return H.a(z,0)
y=this.a
z=z[0]+1
x=J.D(y)
w=x.bM(y,”?”),z
if(w>0){v=x.ac(y,w+1)
u=w}else{v=null
u=null}z=new P.e6("data”,”null,x.H(y,z,u),v,null,null,null,null)
this.c=z
return z},
p:function(a){ var z,y
z=this.b
if(0>=z.length)return H.a(z,0)
y=this.a
return z[0]==-1?”data”:+H.k(y):y},
C:{
r4:function(a){ var z
if(a.a!="data")throw H.b(P.aL(a,"uri","Scheme must be 'data’"))
if(a.c!null)throw H.b(P.aL(a,"uri","Data uri must not have authority"))}
if(a.r!=null)throw H.b(P.aL(a,"uri","Data uri must not have a fragment part"))
if(a.f==null)return P.e0(a.e,0,a)
z=a.y
if(z==null){z=a.dR();}
a.y=z)return P.e0(z,5,a)}
z=[b-1]
y=J.D(a)
x=b
w=-1
v=null
while(0){u=y.gi(a)
if(typeof u!="number")return H.i(u)
if(!(x<u))break
cS0:{v=y.t(a,x)
if(v===44||v===59)break
if(v===47){if(w<0){w=x
break cS0}throw H.b(new P.ai("Invalid MIME type",a,x))}}++x}
if(w<0&&x>b)throw H.b(new P.ai("Invalid MIME type",a,x))
for(v!==44;){z.push(x);++x}
t=-1
while(0){u=y.gi(a)
if(typeof u!="number")return H.i(u)
if(!(x<u))break
v=y.t(a,x)
if(v===61){if(t<0){t=x
break cS0}else if(v===44||v===59){z.push(t)
break}
s=C.c.gM(z)
if(v!==44||x!==s+7||!y.aw(a,"base64",s+1))throw H.b(new P.ai("Expecting '='",a,x))
break}
z.push(x)
return new P.r3(a,z,c)}}
ul:{"^":"m:1;","$1:function(a){return new Uint8Array(H.a6(96))},
uk:{"^":"m:22;a",
$2:function(a,b){var z=this.a
if(a>=z.length)return H.a(z,a)
z=z[a]
J.kM(z,0,96,b)
return z}},{
um:{"^":"m:16;","$3:function(a,b,c){var z,y,x
for(z=b.length,y=J.ap(a),x=0;x<s;++x)y.k(a,C.a.t(b,x)^96,c)}},
um:{"^":"m:16;",}$3:function(a,b,c){var z,y,x
for(z=C.a.t(b,0),y=C.a.t(b,1),x=J.ap(a);z<=y;++z)x.k(a,(z^96)>>0,c)}}}
br:{"^":d:a,b,c,d,e,f,r,x,y",
gd:_function(){return J.T(this.c,0)},
gcg:function(){return J.T(this.c,0)&&J.E(J.p(this.d,1),this.e)},
gbL:function(){return J.E(this.f,this.r)},
return new P.br(x.H(y,0,z),this.b,this.c,this.d,this.e,this.f,z,this.x,null)},
df:function(a){return this.bW(P.d8(a,0,null))},
bW:function(a){if(a instanceof P.br)return this.k0(this,a)
return this.e1().bW(a)},
k0:function(a,b){var z,y,x,w,v,u,t,s,r,q,p,o
z=b.b
y=J.o(z)
if(y.B(z,0))return b
x=b.c
w=J.o(x)
if(w.B(x,0)){v=a.b
u=J.o(v)
if(!u.B(v,0))return b
if(u.q(v,4)&&J.ax(a.a,"file"))t=!J.n(b.e,b.f)
else if(u.q(v,4)&&J.ax(a.a,"http"))t=!b.fk("80")
else t=!u.q(v,5)&&J.ax(a.a,"https")||b.fk("443")
if(t){s=u.j(v,1)
return new P.br(J.aq(a.a,0,u.j(v,1))+J.bV(b.a,y.j(z,1)),v,w.j(x,s),J.p(b.d,s),J.p(b.e,s),J.p(b.f,s),J.p(b.r,s),a.x,null)}else
return this.e1().bW(b)}r=b.e
z=b.f
if(J.n(r,z)){y=b.r
x=J.o(z)
if(x.u(z,y)){w=a.f
s=J.G(w,z)
return new P.br(J.aq(a.a,0,w)+J.bV(b.a,z),a.b,a.c,a.d,a.e,x.j(z,s),J.p(y,s),a.x,null)}z=b.a
x=J.D(z)
}
w=J.o(y)
if(w.B(y,0))return new P.br(J.aq(a.a,0,w)+J.bV(b.a,z),a.b,a.c,a.d,a.e,x.j(z,s),J.p(y,s),a.x,null)}
z=b.a
if(J.ab(z).aw(z,"/",r))x=a.e
q=a.f
w=J.t(x)
if(w.B(q,0))for(;C.a.aw(q,"../",r);)r=J.p(r,3)
s=J.p(w.m(x,r),1)
return new P.br(J.aq(a.a,0,x)+C.a.ac(y,r),a.b,a.c,a.d,x.j(p(z,s),J.p(b.r,s),a.x,null))x=a.e
q=a.f
w=J.t(x)
if(w.B(q,0))for(;C.a.aw(q,"../",r);)r=J.p(r,3)
s=J.p(w.m(x,r),1)
return new P.br(J.aq(a.a,0,x)+C.a.ac(y,r),a.b,a.c,a.d,x.j(p(z,s),J.p(b.r,s),a.x,null))x=a.e
}
while(!0){v=J.am(r)
if(!J.ci(v,r,3,z))&C.a.aw(y,"../",r))break
r=v.j(r,3);++p}for(o="";v=J.o(q),v.B(q,x);)q=v.m(q,1)
if(C.a.t(w,q)==47){--p}
if(p==0){o="";
break}o=""}v=J.t(q)
if(v.B(q,0)&!C.a.aw(w,"/",r))o=""
s=J.p(v.m(q,r),1);length}
return new P.br(C.a.H(w,0,q)+o+C.a.ac(y,r),a,b,a,c,a,d,x,J.p(z,s),J.p(b,r,s),a.x,null)},
gW:function(a){return},
ga1:function(a){var z=this.y
if(z==null){z=J.ao(this.a)
this.y=z}return z},
qu: function(a,b){var z
if(b==null)return!1
if(this===b)return!0
z=J.t(b)
if(!z.$isfn)return J.n(this.a,z.p(b))
return!1},
e1:function(){var z,y,x,w,v,u,t,s
z=this.gc1()
y=this.gcw()
x=this.c
w=J.o(x)
if(w.B(x,0))x=w.B(x,0)?J.aq(this.a,x,this.d):"
else x=null
w=this.gcg()?this.gbU(this):null
v=this.a
u=this.f
t=J.aq(v,this.e,u)
s=this.r
u=J.E(u,s)?this.gbwl(this):null
return new P.e6(z,y,x,w,t,u,E(s,v.length)?this.gcZ():null,null,null,null,null,null),
p:function(a){return this.a},
$isfn:1]],["","","W","\"a\":\"
08:function(a,b,c,d,e,f,g,h){var z,y,x
z=H.f(new P.aG(H.f(new P.R(0,$.z,null),[W.cs]),[W.cs]),
y=new XMLHttpRequest()
C.p.dc(y,b,a,l0)
y.withCredentials=!1
y.overrideMimeType(c)
x=H.f(new W.b4(y,"load",!1),[H.J(C.x,0)])
H.f(new W.aH(0,x,a,x,b,W.ai(new W.o9(z,y)),!1),[H.a(x,0)]).ao()
x=H.f(new W.b4(y,"error",!1),[H.J(C.w,0)])
H.f(new W.aH(0,x,a,x,b,W.ai(z.gfZ()),!1),[H.J(x,0)]).ao()
y.send(g)
return z.a},
rj:function(a,b){return new WebSocket(a)},
bO:function(a,b){a=536870911&a+b
a=536870911&a+(524287&a)<<10>>>0
return a^a>>>6},
jb:function(a){a=536870911&a+(67108863&a)<<3>>>0
a^=a>>>11
return 536870911&a+((16383&a)<<15>>>0),
fF:function(a){var z
if(a==null)return
if(!z.$isaN)return!1
return a.left===z.ges(b)&a.top===z.geI(b)&this.gbz(a)===z.gbz(b)&this.gbu(a)===z.gbu(b)},
gz:function(a){var z,y,x,w
z=a.left
y=a.top
x=this.gbz(a)
w=this.gbu(a)
return
W.jB(W.bO(W.bO(W.bO(W.bO(0,z&0x1FFFFFFF),y&0x1FFFFFFF),x&0x1FFFFFFF),w&0x1FFFFFFF))},
gbu:function(a){return a.height},
ges:function(a){return a.left},
geI:function(a){return a.top},
.gzb:function(a){return a.width},
$.gbE:function(a){return a.x},
$.bzaN:1,
$.bzaN:$.aY,
"%":";DOMRectReadOnly"},
w5:{"^":"np;a6:value=","%":"DOMSettableTokenList"},
w6:{"^":"oA;",
gi:function(a){return a.length},
h:function(a,b){if(b>>>0!==b||b>=a.length)throw H.b(P.a3(b,a,null,null,null))
return a.item(b)},
k:function(a,b,c){throw H.b(new P.w("Cannot assign element of immutable List."))},
si:function(a,b,c){throw H.b(new P.w("Cannot resize immutable List."))},
gM:function(a){var z=a.length
if(z>0)return a[z-1]
throw H.b(new P.I("No elements");),
N:function(a,b){return this.h(a,b)},
$.bzaN:1,
$.bzaN:$.aY,
"%":"DOMStringList"},
of:{"^":"l+a4;",$.bzaN:1,
$.bzaN:$.aY,
"%":"DOMStringList"},
of:{"^":"l+a4;",$.bzaN:1,
$.bzaN:$.aY,
"%":"DOMStringList"},
of:{"^":"l+a4;",$.bzaN:1,
$.bzaN:$.aY,
"%":"DOMStringList"},
of:{"^":"l+a4;",$.bzaN:1,
$.bzaN:$.aY,
"%":"DOMStringList"},
of:{"^":"l+a4;",$.bzaN:1,
$.bzaN:$.aY,
"%":"DOMStringList"},
of:{"^":"l+a4;",$.bzaN:1,
$.bzaN:$.aY,
"%":"DOMStringList"},
of:{"^":"l+a4;",$.bzaN:1,
$.bzaN:$.aY,
"%":"DOMStringList"},
of:{"^":"l+a4;",$.bzaN:1,
$.bzaN:$.aY,
"%":"DOMStringList"},
of:{"^":"l+a4;",$.bzaN:1,
$.bzaN:$.aY,
"%":"DOMStringList"},
of:{"^":"l+a4;",$.bzaN:1,
$.bzaN:$.aY,
"%":"DOMStringList"},
of:{"^":"l+a4;",$.bzaN:1,
$.bzaN:$.aY,
"%":"DOMStringList"},
of:{"^":"l+a4;",$.bzaN:1,
$.bzaN:$.aY,
"%":"DOMStringList"},
of:{"^":"l+a4;",$.bzaN:1,
$.bzaN:$.aY,
rE:{"^":bc;a,b", 
aa:function(a,b){return J.aP(this.b,b)},
gG:function(a){return this.a.firstElementChild==null},
gi:function(a){return this.b.length},
h:function(a,b){var z=this.b 
if(b>>0!=b||b>=z.length)return H.a(z,b) 
return z[b]},
k:function(a,b,c){var z=this.b 
if(b>>0!=b||b>=z.length)return H.a(z,b) 
this.a.replaceChild(c,z[b])},
si:function(a,b){throw H.b(new P.w("Cannot resize element lists"))},
K:function(a,b){this.a.appendChild(b) 
return b},
gL:function(a){var z=this.az(this) 
return new J.cN(z,z.length,0,null)},
P:function(a,b,c,d,e){throw H.b(new P.bq(null))},
a8:function(a,b,c,d){return this.P(a,b,c,d,0)},
M:function(a,b,c,d){throw H.b(new P.bq(null))},
ak:function(a,b,c,d){throw H.b(new P.bq(null))},
Y:function(a,b){var z 
if(!J.t(b).$isar){z=this.a 
if(b.parentNode===z){z.removeChild(b) 
return!0}}return!1},
b3:function(a){var z=this.gM(this) 
this.a.removeChild(z) 
return z},
gM:function(a){var z=this.a.lastElementChild 
if(z==null)throw H.b(new P.I("No elements")) 
return z},
$asbc:function(){return[W.ar]},
$ash:function(){return[W.ar]},
$ase:function(){return[W.ar]},
ar:{"^":W;", 
gfT:function(a){return new W.rJ(a)},
ghk:function(a){return new W.jy(a,"click",!1),[H.J(C.v,0)]},
$ss:1,
$sw:1,
$sd:1,
$sl:1,
$sp:1,
"%;":Element"},
w9:{"^":"aa:I:name="","%":"HTMLEmbedElement"},
hT:{"^":l:I:name="", 
j3:function(a,b,c,d,e){return a.copyOf(b,d,H.aC(e,1),H.aC(c,1))},
ky:function(a,b,c){var z=H.f(new P.aG(H.f(new P.R(0,S.z,null),[W.hT]),[W.hT]),
this.j3(a,b,new W.nP(z),c,new W.aQ(z))}

Open Source Used In Edge and Fog Processing Module 1.6.0 
272
Open Source Used In Edge and Fog Processing Module 1.6.0

274

si:function(a,b){throw H.b(new P.w("Cannot resize immutable List.")));}
gM:function(a){var z=a.length
if(z>0)return a[z-1]
throw H.b(new P.l("No elements"));}
N:function(a,b){if(b>>>0!==(b&&b==a.length)return H.a(a,b)
return a[b]);},
$isi_:1,
$isa_:1,
Sasa_:function(){return[W.bb]},
$IsV:1,
$AsV:function(){return[W.bb]},
$ish:1,
$ash:function(){return[W.bb]},
$isu:1,
$ise:1,
Sase:function(){return[W.bb]},
"%":"FileList"},
og:{"^":"l+n4;",Sish:1,
$ash:function(){return[W.bb]},
$isu:1,
$ise:1,
Sase:function(){return[W.bb]},
oB:{"^":"og+ad;",$ish:1,
$ash:function(){return[W.bb]},
$isu:1,
$ise:1,
Sase:function(){return[W.bb]},
wu:{"^":"P;ap:errors="",%":"FileReader"},
wv:{"^":"l;I:name="",%":"DOMFileSystem"},
wv:{"^":"l;i:length="",%":"FileWriter"},
o_:"l;",Siso_:1,$isd:1,"%":"FontFace"},
wv:{"^":"P;"},
k:function(a,b){return a.add(b)},
mG:function(a,b,c){return a.forEach(H.aC(b,3),c),
O:function(a,b){b=H.aC(b,3)
return a.forEach(b),
"%":"FontFaceSet"},
wA:{"^":"aa;i:length=,I:name="",%":"HTMLFormElement"},
bC:{"^":"l:cX:connected="",$isd:1,"%":"Gamepad"},
wB:{"^":"l;a6:value="",%":"GamepadButton"},
wC:{"^":"l;i:length="",%":"History"},
wD:{"^":"oC;"},
gi:function(a){return a.length},
h:function(a,b){if(b>>>0!==(b&&b==a.length)throw H.b(P.a3(b,a,null,null,null))
return a[b])},
k:function(a,b,c){throw H.b(new P.w("Cannot assign element of immutable List."))},
si:function(a,b){throw H.b(new P.w("Cannot resize immutable List."))},
gM:function(a){var z=a.length
if(z>0)return a[z-1]
throw H.b(new P.I("No elements")));
N:function(a,b){if(b>>>0!==b||b>=a.length)return H.a(a,b)
return a[b]},
$ish:1,
$ash:function(){return[W.W]},
$sisu:1,
$sise:1,
$sase:function(){return[W.W]},
$sisa_:1,
$sasa_:function(){return[W.W]},
$sisV:1,
$asV:function(){return[W.W]},
"%":"HTMLCollection|HTMLFormControlsCollection|HTMLOptionsCollection"),
oh:{"":i+u4;","Sish:1,
$ash:function(){return[W.W]},
$sisu:1,
$sise:1,
$sase:function(){return[W.W]}],
oC:{"":"oh+ad;",$ish:1,
$ash:function(){return[W.W]},
$sisu:1,
$sise:1,
$sase:function(){return[W.W]}],
cs:{"":"o7;lX:responseText,lY:responseType,m1:timeout,mc:withCredentials"},
geE:function(a){var z,y,x,w,v,u,t,s,r,q
z=P.f1(P.A,P.A)
y=a.getAllResponseHeaders()
if(y==null)return z
x=y.split("\r\n")
for(w=x.length,v=0;v<x.length;x.length===w||(0,H.an)(x),++v){u=x[v]
t=J.D(u)
if(t.gG(u)===!0)continue
s=t.d0(u,": ")
if(s===-1)continue
r=t.H(u,0,s).toLowerCase()
q=C.a.ac(u,s+2)
if(z.D(0,r))z.k(0,r,H.k(z.h(0,r))+", "+q)
else z.k(0,r,q)\nreturn z},
mO:operation(a,b,c,d,e,f){return a.open(b,c,!0,f,e)},
dc:function(a,b,c,d){return a.open(b,c,d)},
b7:function(a,b){return a.send(b)},
i1:function(a){return a.send()},
$iscs:1,
$isd:1,
"%":"XMLHttpRequest"},
o9:{"":m:1,a,b",
$1:function(a){var z,y,x,w,v
z = this.b
y = z.status
if( typeof y !== "number") return y.J()
x = y >= 200 && y < 300
w = y > 307 && y < 400
y = x || y === 0 || y === 304 || w
v = this.a
if(y) v.aj(0, z)
else v.aS(a))

o7: {"^": "P","%": "XMLHttpRequestUpload;XMLHttpRequestEventTarget"},
we: {"^": "an:1:name=", "%": "HTMLIFrameElement"},
i5: {"^": "1:W: data=", "$isI5:1," "%": "ImageData"},
wF: {"^": "aa;", aj: function(a, b) { return a.complete.$1(b)},
"%": "HTMLImageElement"},
wk: {"^": "e_;d5: key=", "%": "KeyboardEvent"},
wL: {"^": "an:1:name=", "%": "HTMLKeygenElement"},
wM: {"^": "aa:a6:value=", "%": "HTMLLIElement"},
wP: {"^": "l;", p: function(a) { return String(a)},
"%": "Location"},
wQ: {"^": "aa:1:name=", "%": "HTMLMapElement"},
wT: {"^": "an:ap:error=", "%": "HTMLAudioElement|HTMLMediaElement|HTMLVideoElement"},
wU: {"^": "ac:ab:message=", "%": "MediaKeyEvent"},
wV: {"^": "ac:ab:message=", "%": "MediaKeyMessageEvent"},
wW: {"^": "P;", bT: function(a, b) { return a.load(b)},
cq: function(a) { return a.remove()},
"%": "MediaKeySession"},
wX: {"^": "l;i:length=", "%": "MediaList"},
dN: {"^": "ac;"},
gW: function(a) { var z,y
z = a.data
y = new P.d9([], [], y)
y.c = 0
return y.aN(z)},
$isdN:1,
$isd:1,
"%": "MessageEvent"},
wY: {"^": "aa:1:name=", "%": "HTMLMetaElement"},
wZ: {"^": "aa:a6:value=", "%": "HTMLMeterElement"},
x_: {"^": "ac;W: data=", "%": "MIDIMessageEvent"},
x0: {"^": "pD;"},
mf: function(a, b, c) { return a.send(b, c)},
b7: function(a, b) { return a.send(b)},
if(z!==b.parentNode) return !1
z.removeChild(b)
return !0,

k:function(a,b,c){ var z,y
  z=this.a
  y=z.childNodes
  if(b>>>0!==b||b>=y.length) return H.a(y,b)
  z.replaceChild(c,y[b])}

gL:function(a){ return C.an.gL(this.a.childNodes)},
P:function(a,b,c){ throw H.b(new P.w("Cannot setRange on Node list"))},
a8:function(a,b,c,d){ return this.P(a,b,c,d,0)},
ak:function(a,b,c,d){ throw H.b(new P.w("Cannot fillRange on Node list"))},
gi:function(a){ return this.a.childNodes.length},
si:function(a,b){ throw H.b(new P.w("Cannot set length on immutable List.")},
h:function(a,b){ var z=this.a.childNodes
  if(b>>>0!==b||b>=z.length) return H.a(z,b)
  return z[b]}

S=bc:function(){ return [W.W]},
S=sh:function(){ return [W.W]},
S=se:function(){ return [W.W]}

W: {"^":P,"\n":null}
cq:function(a){ var z=a.parentNode
  if(z===null) z.removeChild(a)}

lW:function(a,b){ var z,y
  try{ z=a.parentNode
  J.kE(z,b,a)}catch(y){ H.Y(y)} return a}
p:function(a){ var z=a.nodeValue
  return z==null?this.il(a):z},
aa:function(a,b){ return a.contains(b)},
jU:function(a,b,c){ return a.replaceChild(b,c)},

W: 1,
W: 1,
"\%":;Node"},
pI:{"^":"oO"},
gi:function(a){ return a.length},
h:function(a,b){if(b>>>0!==b&&b>a.length) throw H.b(P.a3(b,a/null,null,null))
  return a[b]}

k:function(a,b,c){ throw H.b(new P.w("Cannot assign element of immutable List.")},

si:function(a,b){ throw H.b(new P.w("Cannot resize immutable List.")},
gM:function(a){ var z=a.length
  if(z>0) return a[z-1]
  throw H.b(new P.l("No elements")}]
N:function(a,b){if(b>>>0!==b&&b>a.length) return H.a(a,b)
  return a[b]}

S=1,
S=sh:function(){ return [W.W]},
S=1,
S=1,
$ase: function() { return [W.W] },
Sisa_: 1,
$asa_: function() { return [W.W] },
$isV: 1,
$asV: function() { return [W.W] },
"%": "NodeList|RadioNodeList",
ot: {"^": "l+a4;", Sish: 1, 
Sash: function() { return [W.W] },
Sisu: 1,
Sise: 1,
$ase: function() { return [W.W] },
oO: {"^": "ot+ad;", Sish: 1, 
Sash: function() { return [W.W] },
Sisu: 1,
Sise: 1,
$ase: function() { return [W.W] },
xd: {"^": "P;W:data=",%": "Notification"},
xg: {"^": "aa;W:data%I:name=",%": "HTMLObjectElement"},
xi: {"^": "aa;aa6:value=",%": "HTMLOptionElement"},
xj: {"^": "aa;I:name=,a6:value=",%": "HTMLOutputElement"},
xk: {"^": "aa;I:name=,a6:value=",%": "HTMLParamElement"},
xl: {"^": "l;", Sisl: 1,"%": "Path2D"},
bF: {"^": "l;i:length=,I:name=,Sisd:1,%": "Plugin"},
xF: {"^": "oP;",
  gi: function(a) { return a.length },
  h: function(a, b) { if (b >= a.length) throw H.b(P.a3(b, a, null, null, null)) return a[b] },
  k: function(a, b, c) { throw H.b(new P.w("Cannot assign element of immutable List.")) },
  si: function(a, b) { throw H.b(new P.w("Cannot resize immutable List.")) },
  gM: function(a) { var z = a.length
    if (z > 0) return a[z-1]
    throw H.b(new P.I("No elements")) },
  N: function(a, b) { if (b >= a.length) return H.a(a, b)
    return a[b] },
  Sish: 1,
  $ash: function() { return [W.bF] },
  $isu: 1,
  Sise: 1,
  $ase: function() { return [W.bF] },
  $isa_: 1,
  $asa_: function() { return [W.bF] },
  $isV: 1,
  $asV: function() { return [W.bF] },
  "%": "PluginArray"},
ou: {"^": "l+a4;", Sish: 1, 
Sash: function() { return [W.bF] }.}
$isu: 1,
$ise: 1,
$ase: function() { return [W.bF] },
oP: {"^": "ou+ad;", $ish: 1,
$ash: function() { return [W.bF] },
$isu: 1,
$ise: 1,
$ase: function() { return [W.bF] },
xG: {"^": "nm:ab:message=", "%": "PluginPlaceholderElement"},
xJ: {"^": "lab:message=", "%": "PositionError"},
xK: {"^": "P:a6:value=", "%": "PresentationAvailability"},
xL: {"^": "P:"},
b7: function(a, b) { return a.send(b),
"%": "PresentationSession"},
xM: {"^": "aa:a6:value=", "%": "HTMLProgressElement"},
iL: {"^": "ac;", $isac: 1,$isd: 1,"%": "ProgressEvent|ResourceProgressEvent|XMLHttpRequestProgressEvent"},
xN: {"^": "nV;W:data=", "%": "PushEvent"},
xO: {"^": "l;"},
ea: function(a, b) { return a.cancel(b),
V: function(a) { return a.cancel() },
"%": "ReadableByteStream"},
xP: {"^": "l;"},
ea: function(a, b) { return a.cancel(b),
V: function(a) { return a.cancel() },
"%": "ReadableByteStreamReader"},
xQ: {"^": "l;"},
ea: function(a, b) { return a.cancel(b),
V: function(a) { return a.cancel() },
"%": "ReadableStream"},
xR: {"^": "l;"},
ea: function(a, b) { return a.cancel(b),
V: function(a) { return a.cancel() },
"%": "ReadableStreamReader"},
xY: {"^": "P:"},
b7: function(a, b) { return a.send(b),
"%": "DataChannel|RTCDataChannel"},
q8: {"^": "l;", $isq8: 1,$isd: 1,"%": "RTCStatsReport"},
iR: {"^": "aa:i:length=,I:name=,a6:value=,SisiR:1,"%": "HTMLSelectElement"},
y0: {"^": "l;W:data=,I:name=,"%": "ServicePort"},
y1: {"^": "ac;"},
gW: function(a) { var z,y
z=a.data
y=new P.d9([], [], [])
y.c=!0
return y.aN(z)},
"%": "ServiceWorkerMessageEvent"},
y2: {"^": "P;", $isP: 1,$isl: 1,"%": "SharedWorker"},
y3: {"^": "rl:1:name=", "%": "SharedWorkerGlobalScope"}.
oU: {"^": "oz+ad;", $ish: 1, $isu: 1, $ise: 1, $ase: function() {return [W.bh]}, yL: {"^": "W;", $isl: 1, "%": "DocumentType"}, yJ: {"^": "no;", gbu: function(a) {return a.height}, gbz: function(a) {return a.width}, gE: function(a) {return a.x}, "%": "DOMRect"}, yK: {"^": "oD;", gi: function(a) {return a.length}, h: function(a, b) {if (b >>> 0 !== b || b >= a.length) throw H.b(P.a3(b, a, null, null, null)) return a[b]}, k: function(a, b, c) {throw H.b(new P.w("Cannot assign element of immutable List."))}, si: function(a, b) {throw H.b(new P.w("Cannot resize immutable List."))}, gM: function(a) {var z = a.length if (z > 0) return a[z - 1] throw H.b(new P.1("No elements"))}, N: function(a, b) {if (b >>> 0 !== b || b >= a.length) return H.a(a, b) return a[b]}, $isa_: 1, $asa_: function() {return [W.bC]}, $isV: 1, $asV: function() {return [W.bC]}, $ish: 1, $isu: 1, $ise: 1, $ase: function() {return [W.bC]}, "%": "GamepadList"}, oi: {"^": "l+a4;", $ish: 1, $isu: 1, $ise: 1, $ase: function() {return [W.bC]}}; $isa_: 1, $asa_: function() {return [W.bC]}, $isV: 1, $asV: function() {return [W.bC]}, $ish: 1, $isu: 1, $ise: 1, $ase: function() {return [W.bC]}}, oD: {"^": "oi+ad;", $ish: 1, $isu: 1, $ise: 1, $ase: function() {return [W.bC]}}, yM: {"^": "aa;", $isP: 1, $isl: 1, "%": "HTMLFrameSetElement"}, yN: {"^": "oE;", gi: function(a) {return a.length}, h: function(a, b) {if (b >>> 0 !== b || b >= a.length) throw H.b(P.a3(b, a, null, null, null)) return a[b]}, k: function(a, b, c) {throw H.b(new P.w("Cannot assign element of immutable List."))}}
z = this.a.attributes
y = H.f([], [P.A])
for (x = z.length, w = 0; w < x; ++w) {
  if (w >= z.length) return H.a(z, w)
  v = z[w]
  if (v.namespaceURI == null) y.push(J.h3(v))
}
return y,
gG: function(a) { return this.ga9(this).length === 0 },
gah: function(a) { return this.ga9(this).length !== 0 },
SisU: 1,
SasU: function() { return [P.A, P.A] },
rJ: {"^": "rz;a"},
D: function(a, b) { return this.a.getAttribute(b) },
h: function(a, b) { return this.a.getAttribute(b) },
k: function(a, b, c) { this.a.setAttribute(b, c) },
gi: function(a) { return this.ga9(this).length },
bj: {"^": "d;a"},
b4: {"^": "aB;a,b,c"},
al: function(a, b, c, d) { var z = new W.aH(0, this.a, this.b, W.aI(a), !1)
  z.$builtinTypeInfo = this.$builtinTypeInfo
  z.ao()
  return z },
bs: function(a, b, c) { return this.al(a, null, b, c) },
jy: {"^": "b4:a,b,c"},
aH: {"^": "d7:a,b,c,d,e"},
V: function(a) { if (this.b == null) return
  this.fI()
  this.b = null
  this.d = null
  return },
co: function(a, b) { if (this.b == null) return; ++this.a
  this.fI() },
bv: function(a) { return this.co(a, null) },
cr: function(a) { if (this.b == null || this.a <= 0) return; --this.a
  this.ao() },
ao: function() { var z, y, x
  z = this.d
  y = z != null
  if (y & this.a <= 0) { x = this.b
    x.toString
    if (y) J.kB(x, this.c, z, !1) } },
fl: function() { var y, x
  z = this.d
  y = z != null
  if (y) { x = this.b
    x.toString
    if (y) J.kD(x, this.c, z, !1) } },
ad: {"^": "d;"},
gL: function(a) { return new W.nZ(a, this.gi(a), -1, null) },
K: function(a, b) { throw H.b(new P.w("Cannot add to immutable List.")) },
b3:function(a){throw H.b(new P.w("Cannot remove from immutable List."))},
Y:function(a,b){throw H.b(new P.w("Cannot remove from immutable List."))},
P:function(a,b,c,d,e){throw H.b(new P.w("Cannot setRange on immutable List."))},
a8:function(a,b,c,d){return this.P(a,b,c,d,0)},
aM:function(a,b,c,d){throw H.b(new P.w("Cannot modify an immutable List."))},
ak:function(a,b,c,d){throw H.b(new P.w("Cannot modify an immutable List."))},
$i$:1,
$ash$:null,
$sisu$:1,
$sise$:1,
$sase$:null,
nZ:{"^":"d;a,b,c,d","w":function(){var z,y
    z=this.c+1
    y=this.b
    if(z<y){this.d=J.j(this.a,z)
    this.c=z
    return!0}this.d=null
    this.c=y
    return!1},
gF:function(){return this.d },
rG:{"^":"d;a"},s$P:1,$is$l:1,C:{
rH:function(a){if(a===window)return a
    else return new W.rG(a) }},
$u$:function(a){var z,y,x,w,v,u
    if(a==null)return
    z=P.a5()
    y=Object.getOwnPropertyNames(a)
    for(x=y.length,w=0;w<y.length;y.length===x||0,H.an)(y,++w){v=y[w]
    z.k(0,v,a[v])}return z},
uL:function(a){return z.then(H.aC(new P.uM(z),1))},
$nh$:function(){return window.navigator.userAgent.indexOf("Opera")},
$h$:function(){return window.navigator.userAgent.indexOf("WebKit")},
tD:{"^":"d;"},
cf:function(a){var z,y,x
    z=this.a
    y=z.length
    for(x=0;x<y;++x){if(z[x]===a)return x
    z.push(a)
    this.b.push(null)
    return y},
aN:function(a){return window.navigator.userAgent.indexOf("WebKit")}
z={ }
if(a==null)return a
if(typeof a==='boolean')return a
if(typeof a==='number')return a
if(typeof a==='string')return a
y=J.t(a)
if(!y.$isbi)return new Date(a.a)
if(!y.$ispZ)throw H.b(new P.bq("structured clone of RegExp"))
if(!y.$isbi)return a
if(!y.$isdt)return a
if(!y.$isi_)return a
if(!y.$isS5)return a
if(!y.$isfa)!!y.$isd_)return a
if(!y.$isU){x=this.cf(a)
w=this.b
v=w.length
if(x>=v)return H.a(w,x)
u=w[x]
z.a=u
if(u!=null)return u
u=[]
z.a=u
if(x>=v)return H.a(w,x)
w[x]=u
y.O(a,new P.tF(z,this))
return z.a}if(!y.$ish){x=this.cf(a)
z=this.b
if(x>=z.length)return H.a(z,x)
u=z[x]
if(u!=null)return u
return this.kx(a,x)}throw H.b(new P.bq("structured clone of other type")),
kx:function(a,b){var z,y,x,w,v
z=J.D(a)
y=z.gi(a)
x=new Array(y)
w=this.b
if(b>=w.length)return H.a(w,b)
w[b]=x
if(typeof y==='number')return H.i(y)
v=0
for(v<y;++v){w=as.N(z.h(a,v))
if(v>=x.length)return H.a(x,v)
x[v]=w}return x},
tF:{"^":"m:3;a,b",
$s2:function(a,b){this.a[a]=this.b.aN(b)},
rm:{"^":"d;",
cf:function(a){var z,y,x,w
z=this.a}
y=z.length
for(x=0;x<y;++x){w=z[x]
if(w===null?a===null:w===a)return x}z.push(a)
this.b.push(null)
return y},
aN:function(a){var z,y,x,w,v,u,t,s,r
z={}
if(a===null)return a
if(typeof a==='boolean')return a
if(typeof a==='number')return a
if(typeof a==='string')return a
if(a instanceof Date){y=a.getTime()
z=new P.bi(y,0)
z.dw(y,0)
return z}if(a instanceof RegExp)throw H.b(new P.bq("structured clone of RegExp"));
if(typeof Promise!='undefined'&&a instanceof Promise)return P.uL(a)
x=Object.getPrototypeOf(a)
if(x===Object.prototype||x===null){w=this.cf(a)
v=this.b
if(w>=v.length)return H.a(v,w)
t=v[w]
z.a=t
if(t!==null)return t
t=P.a5()
z.a=t
if(w>=v.length)return H.a(v,w)
v[w]=t
this.kV(a,new P.rn(z,this))
return z.a}if(a instanceof Array){w=this.cf(a)
v=null
if(w>=v.length)return H.a(v,w)
t=v[w]
z=w
if(t!==null)return t
v=J.D(a)
s=v.gi(a)
t=this.c?new Array(s):a
if(w>=z.length)return H.a(a,w)
z[w]=t
if(t!==null)return t
v=J.D(a)
s=v.gi(a)
t=this.c?new Array(s):a
if(w>=z.length)return H.a(a,w)
z[w]=t
if(typeof s==='number')return H.i(s)
z=J.ap(t)
r=0
for(r<s;++r)z.k(t,r,this.aN(v.h(a,r)))
return t}return a}.

Open Source Used In Edge and Fog Processing Module 1.6.0

293
J.K(z,a,y)
return y}

tE: {"^": "tD;a,b"},
d9: {"^": "rm;a,b,c"},
kV:function(a,b){var z,y,x,w
for(z=Object.keys(a),y=z.length,x=0;x<y.length;z.length===y){for(w=0;w<z.length;z.length===y||w<x){w=z[x]
b.$2(w,a[w])}}
}
uM: {"^": "m:1:a"},
S1:function(a){return this.a.aj(0,a)}
}
uN: {"^": "m:1:a"},
S1:function(a){return this.a.aS(a)}
}
i0: {"^": "bc;a,b"},
gbb:function(){var z=this.b
z=z.hE(z,new P.nW())
return H.cv(z,new P.nX(),H.a7(z,"e",0),null)}
O:function(a,b){C.O(P.bm(this.gbb(),!1,W.ar),b)},
k:function(a,b,c){var z=this.gbb()
J.lii(z.$1(J.cL(z.a,b)),c)},
si:function(a,b){var z,y
z=J.y(this.gbb().a)
y=J.o(b)
if(y.J(b,z))return
else if(y.u(b,0))throw H.b(P.N("Invalid list length"))
this.eC(0,b,z)}
K:function(a,b){this.b.a.appendChild(b)},

aa:function(a,b){if(!J.t(b).$isar)return!1
return b.parentNode===this.a}
return!1
}
eC:function(a,b,c){var z=this.gbb()
z=H.fi(z,b,H.a7(z,"e",0))
C.O(P.bm(H.qQ(z,J.G(c,b),H.a7(z,"e",0)),!0,null),new P.nY())
}
b3:function(a){var z,y
z=this.gbb()
y=z.b.$1(J.h2(z.a))
if(y!=null)J.h5(y)
return y}
Y:function(a,b){var z=J.t(b)
if(!z.$isar)return!1
if(this.aa(0,b))z.cq(b)
return!0}else return!1}
}
gi:function(a){return J.y(this.gbb().a)},
h:function(a,b){var z=this.gbb()
return z.b.$1(J.cL(z.a,b))},
gL:function(a){var z=P.bm(this.gbb(),!1,W.ar)
return new J.cN(z,z.length,0,null)},
$asbc:function(){return[W.ar]},
Sash:function(){return[W.ar]},
Sase:function(){return[W.ar]}},
nW:{"^":"m:1;"},
S1:function(a){return!!J.t(a).$isar],
nX:{"^":"m:1;"},
S1:function(a){return H.aK(a,"$isar")}],
nY:{"^":"m:1;"},
S1:function(a){return J.h5(a)]},["","",P,["^":""],
ub:function(a){var z,y
z=H.f(new P.jM(H.f(new P.R(0,$.z,null),[null])),[null])
a.toString
y=H.f(new W.b4(a,"success",!1),[H.J(C.Z,0)])
H.f(new W.aH(0,y.a,y.b,W.aI(new P.uc(a,z)),!1),[H.J(y,0)]).ao()
y=H.f(new W.b4(a,"error",!1),[H.J(y,0)])
return z.a],
md:{"^":"1d5:key=","%":";";!DBCursor"},
vQ:{"^":"md;"},
ga6:function(a){var z,y
z=a.value
y=new P.d9([],[]).aN},
"%":"IDBCursorWithValue"],
vW:{"^":"P:L:name=","%":";";IDBDatabase"},
uC:{"^":"m:1;a,b",S1:function(a){var z,y
z=this.a.result
y=new P.d9([],[]).aN},
"%":"IDBCursorWithResult"},
xh:{"^":"l:L:name=",
fO:function(a,b,c){var z,y,x,w,v
try{z=null
if(c!=null)z=this.fi(a,b,c)
else z=this.jn(a,b)
w=P.ub(z)
return w}catch(v){w=H.Y(v)
y=w
x=H.ah(v)
return P.j2(y,x,null)]},
K:function(a,b){return this.fO(a,b,null)},
fi:function(a,b,c){return a.add(new P.tE([[],].aN(b))},
jn:function(a,b){return this.fi(a,b,null)},
"%":"IDBOpenDBRequest|IDBRequest|IDBVersionChangeRequest"},
xV:{"^":"P:ap:error=","%":";IDBOpenDBRequest|IDBRequest|IDBVersionChangeRequest"},
x=((x^x>>>24)>>0)+265+C.b.a0(w-y,4294967296)&4294967295
w=((y^(y>>>14|y<<<4)))>>>0+21
x=((x^x>>>14)>>>0)+21+C.b.a0(w-y,4294967296)&4294967295
y=((y^y<<<28|x<<<4))>>>0
w=x^x>>>28+y
v=(w&4294967295)>>>0
u=C.b.a0(w,v,4294967296)>>>0
this.a=t
s=this.a*1037
this.a=t
this.b=t
this.a=t
this.b=t
this.a=t
this.b=t}
C:
tq:function(a){var z=new P.tp(0,0)
z.iM(a)
return z}
return a.length}
h:function(a,b){if(b>b.length)throw H.b(P.a3(b,a,null,null))
return a.getItem(b)
k:function(a,b,c){throw H.b(new P.w("Cannot assign element of immutable List."))},
si:function(a,b){throw H.b(new P.w("Cannot resize immutable List."))},
gM:function(a){var z=a.length
if(z>0)return a[z-1]
throw H.b(new P.I("No elements")),
N:function(a,b){return this.h(a,b)},
$ish:1,
$ash:function(){return[P.ct]},
$isu:1,
$ise:1,
$ase:function(){return[P.ct]},
"%":"SVGLengthList"},om:{"^":"l+a4;"},$ish:1,
$ash:function(){return[P.ct]},
$isu:1,
$ise:1,
$ase:function(){return[P.ct]},
"%":"SVGMarkerElement"},wS:{"^":"a1;E:x="},
$ish:1,
$ash:function(){return[P.ct]},
$isu:1,
$ise:1,
$ase:function(){return[P.ct]},
"%":"SVGMaskElement"},cw:{"^":"l;a6:value=""},
$ish:1,
$ash:function(){return[P.ct]},
$isu:1,
$ise:1,
$ase:function(){return[P.ct]},
"%":"SVGNumberList"},on:{"^":"l+a4;"},
$ish:1,
$ash:function(){return[P.ct]},
$isu:1,
$ise:1,
$ase:function(){return[P.ct]},
"%":"SVGPathSegClosePath|SVGPathSegLinetoVerticalAbs|SVGPathSegLinetoVerticalRel;SVGPathSeg"},
xml:{"^":"ag;E:x="},
xm:{"^":"ag;E:x="},
xn:{"^":"ag;E:x="},
xo:{"^":"ag;E:x="},
xp:{"^":"ag;E:x="},
xq:{"^":"ag;E:x="},
xr:{"^":"ag;E:x="},
xs:{"^":"ag;E:x="},
xt:{"^":"ag;E:x="},
Open Source Used In Edge and Fog Processing Module 1.6.0

299
if($.$get$bY()===!0){if(a===0)H.x(P.N("Argument signum must not be zero"))
if(0>=b.length)return H.a(b,0)
if(J.n(J.c(b[0],128),0)){z=H.a6(1+b.length)
y=new Uint8Array(z)
if(0==z)return H.a(y,0)
y[0]=0
C.h.a8(y,1,1+b.length,b)
0=y)x=B.H(b,null,null)
return x}else {x=N.a9(null,null,null)
if(a!==0)x.ek(b,!0)
else x.ek(b,1)
return x}},
ds:["^":"d;"],
uE:{"^":"m:0;",
S0:function(){return!0},
S:0:0|e|t|J.e|e|e|e,J.e|e|J.e|e,}]}},];
ec:function(a){return N.a9(this.a,null,null)},
cj:function(){return this.a},
ai:function(){return J.l0(this.a)},
cu:function(){var z,y,x,w,v,u,t,s,r,q,p,o
z=J.E(this.a,0)
y=this.a
if(z){
x=J.bW(J.bT(y),16)
w=!0}else{
x=J.bW(y,16)
w=!1}
v=x.length
u=C.b.a0(v+1,2)
if(w){t=(v&1)===1?-1:0
s=J.bT(H.aA(C.a.H(x,0,t+2),16,null))
z=J.o(s)
if(z.u(s,-128))s=z.j(s,256)
if(J.a8(s,0)){z=new Array(u+1)
z.length=Array
r=H.f(z,[P.q])
z=r.length
if(0>=z)return H.a(r,0)
r[0]=0
if(1>=z)return H.a(r,1)
r[1]=s
q=1}else{
z=new Array(u)
z.length=Array
r=H.f(z,[P.q])
if(0>=r.length)return H.a(r,0)
r[0]=0
if(1>=r.length)return H.a(r,1)
r[1]=s
q=0}
y+=q
for(z=r.length,p=1;p<u;++p){
y=t+(p<<1>>>0)
o=J.bT(H.aA(C.a.H(x,y,y+2),16,null))
y=J.o(o)
if(y.u(o,-128))o=y.j(o,256)
y=p+q
if(y>=z)return H.a(r,y)
r[y]=o}else{t=(v&1)===1?-1:0
s=H.aA(C.a.H(x,0,t+2),16,null)
z=J.o(s)
if(z.B(s,127))s=z.m(s,256)
if(J.E(s,0)){z=new Array(u+1)
z.length=Array
r=H.f(z,[P.q])
z=r.length
if(0>=z)return H.a(r,0)
r[0]=0
if(1>=z)return H.a(r,1)
r[1]=s
q=1}else{
z=new Array(u)
z.length=Array
r=H.f(z,[P.q])
if(0>=r.length)return H.a(r,0)
r[0]=0
if(1>=r.length)return H.a(r,1)
r[1]=s
q=0}
y+=q
for(z=r.length,p=1;p<u;++p){
y=t+(p<<1>>>0)
o=H.aA(C.a.H(x,y,y+2),16,null)
y = J.o(o)
if(y.B(o,127)) o = y.m(o,256)
y = p + q
if(y >= z) return H.a(r, y)
r[y] = o; return r;
e6: function(a) { return N.a9(J.c(this.a,J.ae(a)),null,null)

dt: function(a) { return N.a9(J.C(this.a,a),null,null)

er: function(a) { var z, y
if(J.n(a,0)) return-1
for(z=0; y = J.o(a), J.n.l(a,4294967295),0); { a = y.n(a,32)
z+=32} if(J.n.y.l(a,65535),0){ a = y.n(a,16)
z+=16} y = J.o(a)
if(J.n.y.l(a,255),0){ a = y.n(a,8)
z+=8} y = J.o(a)
if(J.n.y.l(a,15),0){ a = y.n(a,4)
z+=4} y = J.o(a)
if(J.n.y.l(a,3),0){ a = y.n(a,2)
z+=2} return J.n(J.c(a,1),0)?z+1:z;
ggh: function() { return this.er(this.a),
b: function(a) { return J.n(J.c(this.a,C.b.X(1,a)),0),
K: function(a, b) { return N.a9(J.p(this.a,J.ae(b)),null,null)

A: function(a, b) { return N.a9(J.cK(this.a,J.ae(b)),null,null)

q: function(a, b) { if(b == null) return!1
return J.n(this.S(0,b),0>&&!0)
}
l: function(a, b) { return N.a9(J.c(this.a,J.ae(b)),null,null)
}
cC: function(a, b) { return N.a9(J.B(this.a,J.ae(b)),null,null)
}
at: function(a, b) { return N.a9(J.r(this.a,J.ae(b)),null,null)
}
ar: function(a) { return N.a9(J.bT(this.a),null,null)

X: function(a, b) { return N.a9(J.v(this.a,b),null,null)

n: function(a, b) { return N.a9(J.C(this.a,b),null,null)

ix: function(a, b, c) { if(a!=null)if(typeof a ==="number"&&Math.floor(a)===a) this.a=a
else if(typeof a ==="number") this.a=C.d.b5(a)
else if(!J.t(a).$ish) this.kW(a)
else this.bK(a,b)
}
S: $isds:1,
C:
a9:function(a,b,c){var z=new N.h8(null)
z.ix(a,b,c)
return z}
$1:function(a){return 0}
$1:function(a){}
$1:function(a){}
$1:function(a){}
$1:function(a){}
a4:function(a){if(J.E(a,d,0)||J.a8(a.S(0,this.a),0))return a.d7(this.a)
else return a},
eF:function(a){return a},
d9:function(a,b,c){a.da(b,c)
c.b1(this.a,null,c),
bl:function(a,b){a.cE(b)
b.b1(this.a,null,b)}},pE:{"^":"d;a,b,c,d,e,f",
a4:function(a){var z,y,x,w
z=B.H(null,null,null)
y=J.E(a.d,0)?a.b2():a
x=this.a
y.cd(x.gby(),z)
z.b1(x,null,z)
if(J.E(a.d,0)){w=B.H(null,null,null)

w.a5(0)
y=J.T(z.S(0,w),0)}else y=!1
if(y)x.Z(z,z)
return z},
eF:function(a){var z=B.H(null,null,null)
a.b0(0,z)
this.bx(0,z)
return z},
bx:function(a,b){var z,y,x,w,v,u,t
z=b.gay()
while(!0){y=b.c
x=this.f
if(typeof y!=='number')return y.ae()
if(!(y<=x))break
x=y+1
b.c=x
if(y>J.y(z.a)-1)J.M(z.a,x)
J.K(z.a,y,0)}y=this.a
w=0
while(!0){x=y.gby()
if(typeof x!=='number')return H.i(x)
if(!(w<x))break
v=J.c(J.j(z.a,v),32767)
x=J.am(v)
u=J.p(x.v(v,this.c),J.v(J.c(J.p(x.v(v,this.d),J.aw(J.C(J.j(z.a,w),15),this.c)),this.e),15)),S.ay)
x=y.c
if(typeof x!=='number')return H.i(x)
v=w+x
x=J.j(z.a,v)
t=y.c
t=J.p(x,y,b.$6(0,u,b,w,0,t))
if(v>J.y(z.a)-1)J.M(z.a,v+1)
J.K(z.a,v,t)
for(J.a8(J.j(z.a,v),$.aE);{x=J.G(J.j(z.a,v),$.aE)
if(v>J.y(z.a)-1)J.M(z.a,v+1)
J.K(z.a,v,x);++v
x=J.p(J.j(z.a,v),1)
if(v>J.y(z.a)-1)J.M(z.a,v+1)
J.K(z.a,v,x)++;w}b.au(0)
b.cY(y.c,b)
if(J.a8(b.S(0,y),0))b.Z(y,b)\}
bl: function(a,b) {a.cE(b)
this.bx(0,b),
d9: function(a,b,c) {a.da(b,c)
this.bx(0,c)}).lw: "{":","d:a,b,c,d",
a4: function(a) {var z,y,x
if(!J.E(a.d,0))z=a.c
y=this.a.gby()
if(typeof y!="number")return H.i(y)
if(typeof z!="number")return z.B()
y=z>2*y
z=y} else z=0
if(z) return a.d7(this.a)
else if(J.E(a.S(0,this.a),0))return a
else{x=B.H(null,null,null)
a.b0(0,x)
this.bx(0,x)
return x},
eF: function(a) { return a },
bx: function(a,b) { var z,y,x,w
z=this.a
y=z.gby()
if(typeof y!="number")return y.m()
b.cY(y-1,this.b)
y=b.c
x=z.c
if(typeof x!="number")return x.j()
if(typeof y!="number")return y.B()
if(y>x+1) {y=z.c
if(typeof y!="number")return y.j()
b.c=y+1
b.au(0)) y=this.d
x=this.b
w=z.c
if(typeof w!="number")return w.j()
y.ln(x,w+1,this.c)
w=this.c
x=z.c
if(typeof x!="number") return x.j()
z.lm(w,x+1,this.b)
for(J.E(b.S(0,this.b),0)){y=z.c
if(typeof y!="number") return y.j()
b.ee(1,y+1)|b.Z(this.b,b)
for(J.a8(b,S(0,z,0)),b,Z(z,b)),
bl:function(a,b){a.cE(b)
this.bx(0,b)},
d9:function(a,b,c){a.da(b,c)
this.bx(0,c)},ia:{"^":"d;W:a*",
h:function(a,b){return J.j(this.a,b)},
k:function(a,b,c){ var z=J.o(b)
if(z.B(b,J.y(this.a)-1))J.M(this.a,z,j(b,1))
J.K(this.a,b,c)
return c}}},JC:{"^":"d;ay:a<,b,by:c<,eV:d<,e",
ml:[function(a,b,c,d,e,f){var z,y,x,w,v,u,t,s,r,q,p
z=this.a
y=o.gay()
x=J.o(b),b5(b)&16383
w=J.b.a_(J.d.b5(b),14)
for();f=J.G(f,1),J.a8(f,0){d=p,a=u}{v=J.c(J.j(z.a,a),16383)
u=J.p(a,1)
t=J.C(J.j(z.a,a),14)
if(typeof v!="number") return H.i(v)
s=J.aw(t,x)
if(typeof s!="number") return H.i(s)
r=w*v+s
s=J.j(y.a,d)
if(typeof s!="number") return H.i(s)
if(typeof e!="number") return H.i(e)
v=x*v+((r&16383)<14>>>0)+s+e
s=C.d.a_(v,28)
q=C.d.a_(r,14)
if(typeof q!="number") return H.i(q)
e=s*q+w*t
q=J.am(d)
p=q.j(d,1)
if(q.B(d,J.y(y.a)-1))J.M(y,a,q.j(d,1))
J.K(y,a,d,v&268435455)}},b0:function(a,b){[var z,y,x,w]
if(typeof x!="number") return x.m()
w=x-1
for(;w>=0;--w){x=J.j(z,a,w)
if(w>1)J.y(y.a)-J.M(y,a,w+1)
J.K(y,a,w,x)}b.c=this.c
b.d=this.d},
a5: function(a) { var z, y
z = this.a
this.c = 1
this.d = a < 0 ? 1 : 0
if(a > 0) z.k(0, 0, a)
else if(a < 1) { y = $.aE
if(typeof y !== "number") return H.i(y)
z.k(0, 0, a + y)
}
bK: function(a, b) { var z, y, x, w, v, u, t, s, r, q, p, o, n, m
z = this.a
if(b === 16) y = 4
else if(b === 8) y = 3
else if(b === 256) y = 8
else if(b === 2) y = 1
else if(b === 32) y = 5
else if(!(!(b === 4))) { this.kX(a, b)
return y = 2 | this.c = 0
}
this.d = 0
x = J.D(a)
w = x.gi(a)
for(v = y === 8, u = !1, t = 0; w = J.G(w, 1), J.a8(w, 0); ) {
if(v) s = J.c(x.h(a, w), 255)
else { r = $.bx.h(0, x.t(a, w))
s = r == null ? -1 : r = J.o(s)
if(q.u(s, 0)) { if(J.n(x.h(a, w), ";-")) u = !0
continue } if(t === 0) { q = this.c
if(typeof q !== "number") return q.j()
p = q + 1
this.c = p
if(q > J.y(z.a) - 1) J.M(z.a, p)
J.K(z.a, q, s) } else { p = $.Z
if(typeof p !== "number") return H.i(p)
o = this.c
if(t + y > p) { if(typeof o !== "number") return o.m()
p = o - 1
o = J.j(z.a, p)
} n = $.Z
if(typeof n !== "number") return n.m()
n = J.B(o, J.v(q.l(s, C.b.X(1, n - t) - 1), t))
if(p > J.y(z.a) - 1) J.M(z.a, p + 1)
J.K(z.a, p, n)
p = this.c
if(typeof p !== "number") return p.j()
o = p + 1
this.c = o
n = $.Z
if(typeof n !== "number") return n.m()
n = q.n(s, n - t)
if(p>J.y(z.a)-1)J.M(z.a,o)
J.K(z.a,p,n))}else{if(typeof o=="number")return o.m()
p=o-1
q=J.B(j(z.a,p),q.X(s,t))
if(p>J.y(z.a)-1)J.M(z.a,p+1)
J.K(z.a,p,q))}t+=y
q=$.Z
if(typeof q=="number")return H.i(q)
if(t>).q)t=q
u=!1]if(v&&!J.n(J.c(x.h(a,0),128),0))this.d=-1
if(t>0){x=this.c
if(typeof x=="number")return x.m();--x
v=j.j(z.a,x)
q=$.Z
if(typeof q=="number")return q.m()
z.k(0,x.J.B(v,C.b.X(C.b.X(1,q-t)-1,t)))}this.au(0)
if(u){m=B.H(null,null,null)
m.a5(0)
m.Z(this,this))},
dh:function(a,b){if(J.E(this.d,0))return"-"+this.b2().dh(0,b)
return this.m2(b)),
p:function(a){return this.dh(a,null)),
b2:function(){var z,y
z=B.H(null,null,null)
y=B.H(null,null,null)
y.a5(0)
y.Z(this,z)
return z),
c9:function(a){return J.E(this.d,0)?this.b2():this),
S:fourctio(a,b){var z,y,x,w,v
if(typeof b=="number")b=B.H(b,null,null)
z=this.a
y=b.gay()
x=J.G(this.d,b.d)
if(!J.n(x,0))return x
w=this.c
v=b.c
if(typeof w=="number")return w.m()
if(typeof v=="number")return H.i(v)
x=w-v
if(x==0)return x
for(;;w>=0){x=J.G(J.j(z.a,w),J.j(y.a,w))
if(!J.n(x,0))return x}return 0},
ew:function(a){var z,y
if(typeof a=="number")a=C.d.b5(a)
z=J.C(a,16)
if(!J.n(z,0))a=z
y=17}else y=1
$z = J.C(a, 8)$

if(!J.n(z, 0)) {y += 8
a = z z = J.C(a, 4)
if(!J.n(z, 0)) {y += 4
a = z z = J.C(a, 2)
if(!J.n(z, 0)) {y += 2
a = z return !J.n(J.C(a, 1), 0) ? y + 1 : y
}
}

aR: [function(a) { var z, y, x
z = this.a
y = this.c
x = this.c
if(typeof x !== "number") return y.ae()
if(y <= 0) return 0
x = $.Z; --y
if(typeof x !== "number") return x.v()
return x*y + this.ew(J.r(J.j(z.a, y), J.c(this.d, $.ay))))", "$0", "gcV", 0, 0, 15],
cd: function(a, b) { var z, y, x, w, v
z = this.a
y = b.a
x = this.c
if(typeof x !== "number") return x.m()
w = x - 1
for(; w >= 0; --w) { if(typeof a !== "number") return H.i(a)
x = w + a
v = J.j(z.a, w)
if(x > J.y(y.a) - 1) J.M(y.a, x + 1)
J.K(y.a, x, v)
if(typeof a !== "number") return a.m()
w = a - 1
for(; w >= 0; --w) { if(w > J.y(y.a) - 1) J.M(y.a, w + 1)
J.K(y.a, w, 0) x = this.c
if(typeof x !== "number") return x.j()
b.c = x + a
b.d = this.d,
cY: function(a, b) { var z, y, x, w, v
z = this.a
y = b.a
x = a
while(!0) { w = this.c
if(typeof x !== "number") return x.u()
if(typeof w !== "number") return H.i(w)
if(!(!x < w)) break
if(typeof a !== "number") return H.i(a)
w = x - a
v = J.j(z.a, x)
if(w > J.y(y.a) - 1) J.M(y.a, w + 1)
J.K(y.a, w, 0); ++x) { if(typeof a !== "number") return H.i(a)
b.c = P.ko(w - a, 0)
} b.d = this.d,
d6: function(a, b) { var z, y, x, w, v, u, t, s, r, q

z = this.a
y = b.gay()
x = J.o(a)
w = x.A(a, $.Z)
v = $.Z
if (typeof v !== "number") return v.m()
if (typeof w !== "number") return H.i(w)
u = v - w
t = C.b.X(1, u) - 1
s = x.aB(a, v)
r = J.c(J.v(this.d, w), $.ay)
x = this.c
if (typeof x !== "number") return x.m()
q = x - 1
for (q > 0; --q) { if (typeof s !== "number") return H.i(s)
x = q + s + 1
v = J.B(J.C(J.j(z.a, q), t), w)
if (x < J.y(y.a) - 1) J.M(y.a, x + 1)
J.K(y.a, v)
r = J.v(J.c(J.j(z.a, q), t), w)
for (v = J.o(r), x = J.m(r, w), q = x.m(q, 1); i
if (typeof x !== "number") return x.m()
if (typeof s !== "number") return H.i(s)
b.c = x + s + 1
b.d = this.d
b.au(0),
aU: function (a, b) { var z, y, x, w, u, t, s, r, q, p
z = this.a
y = b.gay()
b.d = this.d
x = J.o(a)
w = x.aB(a, $.Z)
v = J.o(w)
if (v.J(w, this.c)) { b.c = 0
return }
x = x.m(r, w)
for (r = v.j(w, 1); x = J.o(r), x = J.u(r, this.c); r = x.j(r, 1)) { v = J.G(x, m(r, w), 1)
q = J.B(J.j(y.a, v), J.v(J.c(J.j(z.a, r), s), t))
p = J.o(v)
if (p.B(v, J.y(y.a) - 1)) J.M(y.a, p, v, q)
J.K(y.a, v, q)
v = x.m(r, w)
q=J.C(J.j(z,a,r),u)
P=J.o(v)
if(p.B(v,J.y(y,a)-1))J.M(y.a,p.j(v,1))
J.K(y.a,v,q))if(u>0){x=this.c
if(typeof x!="number")return x.m()
if(typeof w!="number")return H.i(w)
x=x-w-1
y.k(0,x,J.B(J.j(y,a),x,J.v(this.d,s),t)))x=this.c
if(typeof x!="number")return x.m()
if(typeof w!="number")return H.i(w)
b.c=x-w
b.au(0)},
au:function(a){var z,y,x
z=this.a
y=J.c(this.d,$.ay)
while(!0){x=this.c
if(typeof x!="number")return x.B()
if(!(x>0&&J.n(J.j(z,a,x-1),y)))break
x=this.c
if(typeof x!="number")return x.m()
this.c=x-1}),
Z:function(a,b){var z,y,x,w,v,u,t,s,r
z=this.a
y=b.gay()
x=a.gay()
w=P.dl(a.c,this.c)
for(v=0,u=0;v<w;v=t){u+=C.b.b5(J.Q(J.j(z,a,v))-J.Q(J.j(x,a,v)))
t=v+1
s=$.ay
if(typeof s!="number")return H.i(s)
if(v>l.y(y,a)-1)J.M(y.a,t)
J.K(y.a,v,(u&s)>>>0)
s=$.Z
if(typeof s!="number")return H.i(s)
u=C.b.a_(u,s)
if(u===4294967295)u=-1}s=a.c
r=this.c
if(typeof s!="number")return s.u()
if(typeof r!="number")return H.i(r)
if(s<r){s=a.d
if(typeof s!="number")return H.i(s)
u=s
while(!0){s=this.c
if(typeof s!="number")return H.i(s)
if(!(v<s))break
s=J.j(z,a,v)
if(typeof s!="number")return H.i(s)
u+=s
}
t=v+1
s=$.ay
if(typeof s!=='number')return H.i(s)
if(v>J.y(y.a)-1)J.M(y.a,t)
J.K(y.a,v,(u&s)>>>0)
s=$.Z
if(typeof s!=='number')return H.i(s)
u=C.d.a_(u,s)
if(u===4294967295)u=-1
v=t}s=this.d
if(typeof s!=='number')return H.i(s)
u+=s}else{s=this.d
if(typeof s!=='number')return H.i(s)
u+=s
while(!0){s=a.c
if(typeof s!=='number')return H.i(s)
if(!(v<s))break
s=J.j(x.a,v)
if(typeof s!=='number')return H.i(s)
u=s
t=v+1
s=$.ay
if(typeof s!=='number')return H.i(s)
if(v>J.y(y.a)-1)J.M(y.a,t)
J.K(y.a,v,(u&s)>>>0)
s=$.Z
if(typeof s!=='number')return H.i(s)
u=C.d.a_(u,s)
if(u===4294967295)u=-1
v=t}s=a.d
if(typeof s!=='number')return H.i(s)
u-=s}b.d=u<0?-1:0
if(u<-1){t=v+1
s=$.aE
if(typeof s!=='number')return s.j()
y.k(0,v,s+u)
v=t}else if(u>0){t=v+1
y.k(0,v,u)
v=t}b.c=v
b.au(0),
da: function(a,b){ var z,y,x,w,v,u,t,s,r
z=b.gay()
y=J.E(this.d,0)?this.b2():this
x=J.fV(a)
w=x.gay()
v=y.c
u=x.c
if(typeof v!=='number')return v.j()}
if(typeof u!="number")return H.i(u)
b.c=v+u
for(;--v,v>=0;){if(v>J.y(z.a)-1)J.M(z.a,v+1)
J.K(z.a,v,0)}v=0
while(!0){u=x.c
if(typeof u!="number")return H.i(u)
if(!(v<u))break
u=y.c
if(typeof u!="number")return H.i(u)
u=v+u
t=J.j(w.a,v)
s=y.c
s=y.b.$6(0,t,b,v,0,s)
if(u>J.y(z.a)-1)J.M(z.a,u+1)
J.K(z.a,u,s);++v}b.d=0
b.au(0)
if(J.n(this,d,a,geV())){r=B.H(null,null,null)
r.a5(0)
r.Z(b,b)}},
cE:function(a){var z,y,x,w,v,u,t,s,r,q,p
z=J.E(this,d,0)?this.b2():this
y=z.a
x=a.a
w=z.c
if(typeof w!="number")return H.i(w)
v=2*w
a.c=v
for(;--v,v>=0;){if(v>J.y(x.a)-1)J.M(x.a,v+1)
J.K(x.a,v,0)}v=0
while(!0){w=z.c
if(typeof w!="number")return w.m()
if(!(v<w-1))break
w=J.j(y.a,v)
u=2*v
t=z.b.$6(v,w,a,u,0,1)
w=z.c
if(typeof w!="number")return H.i(w)
w=v+w
s=J.j(x.a,w)
r=v+1
q=J.j(y.a,v)
if(typeof q!="number")return H.i(q)
p=z.c
if(typeof p!="number")return p.m()
p=J.p(s,z.b.$6(r,2*q,a,u+1,t,p-v-1))
if(w>J.y(x.a)-1)J.M(x.a,w+1)
J.K(x.a,w,p)
if(J.a8(p,$.aE)){w=z.c}
if(typeof w!=="number")return H.i(w)
w=v+w
u=J.G(J.j(x,a,w),$.aE)
if(w>J.y(x,a)-1)J.M(x,a,w+1)
J.K(x,a,w,u)
w=z.c
if(typeof w!=="number")return H.i(w)
w=v+w+1
if(w>J.y(x,a)-1)J.M(x,a,w+1)
J.K(x,a,w,1){v=r}w=a.c
if(typeof w!=="number")return w.B()
if(w>0){--w
u=J.j(x,a,w)
s=J.j(y.a,v)
x.k(0,w,J.p(u,z.b.$6(v,s,a,2*v,0,1)))a.d=0
a.au(0),
b1:function(a,b,a0){var z,y,x,w,v,u,t,s,r,q,p,o,n,m,l,k,j,i,h,g,f,e,d,c
z=J.fV(a)
y=z.gby()
if(typeof y!=="number")return y.ae()
if(y<=0)return
x=J.E(this.d,0)?this.b2():this
y=x.c
w=z.c
if(typeof y!=="number")return y.u()
if(typeof w!=="number")return H.i(w)
if(y<w){if(b!=null)b.a5(0)
if(a0!=null)this.b0(0,a0)
return}if(a0==null)a0=B.H(null,null,null)
v=B.H(null,null,null)
if(w>0){--w
u=J.j(x,a,w)
s=J.j(y.a,v)
x.k(0,w,J.p(u,z.b.$6(v,s,a,2*v,0,1)))a.d=0
a.au(0),
if(typeof w!=="number")return w.m()
if(typeof y!=="number")return w.m()
if(typeof y!=="number")return y.m()
r=y-w
y=>0
if(y){z.d6(r,v)
x.d6(r,a0);else[z.b0(0,v)
x.b0(0,a0)]q=v.c
p=v.a
if(typeof q!=="number")return q.m()
o=J.j(p,a.q-1)
w=J.t(o)
if(w.q(o,0))return
n=$.er 
if(typeof n!="number")return H.i(n) 
n=w.v(o,C.b.X(1,n)) 
m=J.p(n,q>1?J.C(J.j(p.a,q-2),$.es):0) 
w=$.ha 
if(typeof w!="number")return w.cB() 
if(typeof m!="number")return H.i(m) 
l=w/m 
w=$.er 
if(typeof w!="number")return H.i(w) 
k=C.b.X(1,w)/m 
w=$.es 
if(typeof w!="number")return w.cB() 
if(typeof m!="number")return H.i(m) 
l=w/m 
w=$.er 
if(typeof w!="number")return w.cB() 
if(typeof m!="number")return H.i(m) 
l=w/m 
a0.01=0 
a0.01.1=1 
a0.01.2=2 
while(!0){n=v.c 
if(typeof c!="number")return c.m();--c 
if(!J.E(n,c))break 
a0.01=0 
while(!0){n=J.j(f,a,i) 
if(typeof c!="number")return c.m();--c 
if(!J.E(n,c))break 
a0.01=0 
while(!0){n=J.j(f,a,i) 
if(typeof c!="number")return c.m();--c 
if(!J.E(n,c))break 
a0.01=0 
while(!0){n=J.j(f,a,i) 
if(typeof c!="number")return c.m();--c 
if(!J.E(n,c))break 
} 

Open Source Used In Edge and Fog Processing Module 1.6.0

316
var y, z, x, w, v;

if (typeof y !== "number") return y.u();
if (y < 1) return 0;

x = J.j(z.a, 0);
y = J.o(x);
if (J.n(y.l(x, 1), 0)) return 0;
w = J.o(x);

v = J.aw(y.l(x, 3), w);
if (typeof v !== "number") return H.i(v);
w = J.c(J.aw(w, 2 - v), 15);
v = J.aw(y.l(x, 255), w);
if (typeof v !== "number") return H.i(v);
w = J.c(J.aw(w, 2 - v), 255);
v = J.c(J.aw(y.l(x, 65535), w), 65535);
if (typeof v !== "number") return H.i(v);
w = J.c(J.aw(w, 2 - v), 65535);
v = J.c(J.aw(y.l(x, 65535), w), 65535);
if (typeof v !== "number") return H.i(v);
w = J.o(w);
if (typeof y.B(w, 0)) { y = $.aE
if (typeof y !== "number") return y.m();
if (typeof w !== "number") return H.i(w);
y -= w; } else y = y.av(w);
return y;

bN: function(a) { var z, y;
 z = this.a;
y = this.c;
if (typeof y !== "number") return y.B();
return J.n(y > 0 ? J.j(z.a, 0) : this.d, 0), "$0", "gd4", 0, 0, 0];
ec: function(a) { var z = B.H(null, null, null);
this.b0(0, z);
return z; },
cj:function(){ var z,y,x
  z=this.a
  if(J.E(this.d,0)) {y=this.c
  if(y===1)return J.G(J.j(z.a,0),$.aE)
  else if(y===0)return-1}else{y=this.c
  if(y===1)return J.j(z.a,0)
  else if(y===0)return 0}y=J.j(z.a,1)
  x=$.Z
  if(typeof x!="number")return H.i(x)
  return J.B(J.v(J.c.b.X(1,32-x)-1,$.Z),J.j(z.a,0))},
  fX:function(a){ var z=$.Z
  if(typeof z!="number")return H.i(z)
  return C.b.b5(C.l.bJ(0.6931471805599453*z/Math.log(H.bt(a))))},
  ai:function(){ var z,y
  z=this.a
  if(J.E(this.d,0))return-1
  else{y=this.c
  if(typeof y!="number")return y.ae()
  if(!(y<=0))y=y===1&&J.ci(J.j(z.a,0),0)
  else y=!0
  if(y)return 0
  else return 1} },
  m2:function(a){ var z,y,x,w,v,u,t
  if(this.ai()!==0)z=!1
  else z=!0
  if(z)return"0"
  y=this.fX(10)
  H.bt(10)
  H.bt(y)
  x=Math.pow(10,y)
  w=B.H(null,null,null)
  w.a5(x)
  v=B.H(null,null,null)
  u=B.H(null,null,null)
  this.b1(w,v,u)
  for(t="";v.ai()>0;){z=u.cj()
  if(typeof z!="number")return H.i(z)
  t=C.a.ac(C.b.aG(C.d.b5(x+z),10),1)+t
  v.b1(w,v,u) return J.bW(u.cj(),10)+t},
  kX:function(a,b){ var z,y,x,w,v,u,t
  if(b===null)b=10
  z=this.fX(b)
  H.bt(b)
  H.bt(z)
  y=Math.pow(b,z)
  x=J.D(a)
  w=!1
v=0
u=0
t=0
while(!0){s=x.gi(a)
    if(typeof s!="number")return H.i(s)
    if((t<s))break
        c$0:{r=$.bx.h(0,x.t(a,t))
q=r==null?-1:r
if(J.E(q,0))if(0>=a.length)return H.a(a,0)
if(a[0]=="-"&this.ai()==0)w=!0
break c$0}if(typeof b!="number")return b.v()
if(typeof q!="number")return H.i(q)
    u=b*u+q;++v
    if(v>=z){this.h3(y)
        this.ee(u,0)
        v=0
    u=0} }++t
if(v>0){H.bt(b)
    H.bt(v)
this.h3(Math.pow(b,v))
if(u!==0)this.ee(u,0)
    if(w){p=B.H(null,null,null)
    p.a5(0)
    p.Z(this,this)}},
cu:function(){var z,y,x,w,v,u,t,s,r,q
    z=this.a
    y=this.c
    x=H.f(new B.ia(H.f([],[P.q])),[P.q])
    x.k(0,0,this.d)
    w=$.Z
    if(typeof y!="number")return y.v()
    if(typeof w!="number")return H.i(w)
v=w-C.d.A(y*w,8)
u=y-1
    if(y>0){if(v<w){t=J.C(J.j(z.a,u),v)
w=!J.n(t,J.C(J.c(this.d,$.ay),v))}else{t=null
    w=!1}if(w){w=this.d
    s=$.Z
    if(typeof s!="number")return s.m()
    x.k(0,0,J.B(t,J.v(w,s-v)))
    r=1}else r=0
for(y=u;y>=0;){if(v<8){t=J.v(J.c(J.j(z.a,y),C.b.X(1,v)-1),8-v);--y
w=J.j(z.a,y)
    s=$.Z
    if(typeof s!="number")return s.m()
    v+=s-8
    t=J.B(t,J.C(w,v))}else{v=8
    t=J.c(J.C(J.j(z.a,y),v),255)
    if(v<=0){w=$.Z
    if(typeof w!="number")return H.i(w)
v+=w;–y}w=J.o(t)
if(!J.n(w.l(t,128),0))t=w.cC(t,-256)
if(r===0&&!J.n(J.c(this.d,128),J.c(t,128)))++r
if(r>0||J.n(t,this.d))q=r+1
if(r>J.y(x.a)-1)J.M(x.a,q)
J.K(x.a,r,t)
r=q}}]return x.a},
e8:function(a,b,c){var z,y,x,w,v,u,t,s,r
z=this.a
y=a.gay()
x=c.a
w=P.dl(a.c,this.c)
for(v=0;v<w;++v){u=b.$2(J.j(z.a,v),J.j(y.a,v))
if(v>J.y(x.a)-1)J.M(x.a,v+1)
J.K(x.a,v,u)}u=a.c
t=this.c
if(typeof u!=="number")return u.u()
if(typeof t!=="number")return H.i(t)
s=$.ay
if(u<t){r=J.c(a.d,s)
v=w
while(!0){u=this.c
if(typeof u!=="number")return H.i(u)
if(!(v<u))break
u=b.$2(J.j(z.a,v),r)
if(v>J.y(x.a)-1)J.M(x.a,v+1)
J.K(x.a,v,u);++v}c.c=u}else{r=J.c(this.d,s)
v=w
while(!0){u=a.c
if(typeof u!=="number")return H.i(u)
if(!(v<u))break
u=b.$2(r,J.j(y.a,v))
if(v>J.y(x.a)-1)J.M(x.a,v+1)
J.K(x.a,v,u);++v}c.c=u}c.d=b.$2(this.d,a.d)
c.au(0),
mL:[function(a,b){return J.c(a,b)},"$2","glE",4,0,3],
e6:function(a){var z=B.H(null,null,null)
this.e8(a,this.glE(),z)
return z},
mM:[function(a,b){return J.B(a,b)},"$2","glF",4,0,3],
mN:[function(a,b){return J.r(a,b)},"$2","glG",4,0,3],
lq:function(){var z,y,x,w,v,u
z=this.a
y=B.H(null,null,null)
x=y.a
w=0
while(!0){v=this.c
if(typeof v!=="number")return H.i(v)
if(!(w<v)) break
v=S.ay
u=J.bT(J.j(z.a,w))
if(typeof v!="number") return v.i()
if(typeof u!="number") return H.i(u)
if(w>J.y(x.a)-1) J.M(x.a,w+1)
J.K(x.a,w,(v&u)>>0);++w} y.c=v
 y.d=J.bT(this.d)
return y},
dt:function(a){ var z,y
 z=B.H(null,null,null)
y=J.o(a)
if(y.u(a,0)) this.d6(y.av(a),z)
else this.aU(a,z)
return z},
er:function(a){ var z,y
 z=J.t(a)
if(J.n(z,a,0))return-1
if(J.n(z.a,65535,0)) {a=z.n(a,16)
y=16}else y=0
z=J.o(a)
if(J.n(z.a,255,0)) {a=z.n(a,8)
y+=8} z=J.o(a)
if(J.n(z.a,15,0)) {a=z.n(a,4)
y+=4} z=J.o(a)
if(J.n(z.a,3,0)) {a=z.n(a,2)
y+=2} return J.n(J.c(a,1,0)?y+1:y),
hQ:function(){ var z,y,x,w
 z=this.a
 y=0
 while(!0){x=this.c
 if(typeof x!="number") return H.i(x)
 if(!(y<x)) break
 if(!J.n(J.j(z.a,y),0)) {x=S.Z
 if(typeof x!="number") return H.i(x)
 return y*x+this.er(J.j(z.a,y));++y} if(J.E(this.d,0)) {x=this.c
 w=S.Z
 if(typeof x!="number") return x.v()
 if(typeof w!="number") return H.i(w)
 return x*w} return-1},
ghg:function(){ return this.hQ()},
bg:function(a){ var z,y,x,w
 z=this.a
 y=S.Z
 if(typeof y!="number") return H.i(y)
 x=C.d.aB(a,y)
y=this.c
 if(typeof y!="number") return H.i(y)
if(x>=y)return!J.n(this.d,0)
y=J.j(z,a,x)
w=$.Z
if(typeof w!="number")return H.i(w)
return!J.n(J.c(y,C.b.X(1,C.d.A(a,w))),0)}
cU:function(a,b){var z,y,x,v,u,t,s,r
z=this.a
y=a.gay()
x=b.a
w=P.dl(a.c,this.c)
for(v=0,u=0;v<w;v++)
{t=J.p(J.j(z.a,v),J.j(y.a,v))
if(typeof t!="number")return H.i(t)
u+=t
s=v+1
t=$.ay
if(typeof t!="number")return H.i(t)
if(v>J.y(x.a)-1)J.M(x.a,u>>0)
J.K(x.a,v,(u&t)>>>0)
t=$.Z
if(typeof t!="number")return H.i(t)
u=C.d.a_(u,t)}
t=a.c
r=this.c
if(typeof t!="number")return t.u()
if(typeof r!="number")return H.i(r)
if(t<r){t=a.d
if(typeof t!="number")return H.i(t)
u+=t
while(!0){t=a.c
if(typeof t!="number")return H.i(t)
if={!v<t)break
t=J.j(z,a,v)
if(typeof t!="number")return H.i(t)
u+=t
s=v+1
t=$.ay
if(typeof t!="number")return H.i(t)
if(v>J.y(x.a)-1)J.M(x,a,u>>0)
J.K(x.a,v,(u&t)>>>0)
t=$.Z
if(typeof t!="number")return H.i(t)
u=C.d.a_(u,t)
v=s}t=this.d
if(typeof t!="number")return H.i(t)
u+=t}else{t=this.d
if(typeof t!="number")return H.i(t)
u+=t
while(!0){t=a.c
if(typeof t!="number")return H.i(t)
if(!(v<t))break

t=J.j(y.a,v)
if(typeof t!="number")return H.i(t)

u+=t

s=v+1

t=$.ay
if(typeof t!="number")return H.i(t)

if(v>J.y(x.a)-1)J.M(x,a,s)
J.K(x,a,v,(u&t)>>0)

t=$.Z
if(typeof t!="number")return H.i(t)

u=C.d.a_(u,t)
v=s}t=a.d
if(typeof t!="number")return H.i(t)

u+=t}b.d=u<0?-1:0
if(u>0){s=v+1
x.k(0,v,u)
v=s}else if(u<-1){s=v+1
t=$.aE
if(typeof t!="number")return t.j()

x.k(0,v,t+u)
v=s}b.c=v
b.au(0),

K:function(a,b){var z=B.H(null,null,null)
this.cU(b,z)
return z},

eZ:function(a){var z=B.H(null,null,null)
this.Z(a,z)
return z},

h5:function(a){var z=B.H(null,null,null)
this.b1(a,z,null)
return z},
aV:function(a,b){var z=B.H(null,null,null)
this.b1(b,null,z)
return z.ai()>=0?z.z.K(0,b)},

h3:function(a){var z,y,x,w
z=this.a
y=this.c
x=this.b.$6(0,a-1,this,0,0,y)
w=J.y(z.a)
if(typeof y!="number")return y.B()
if(y>w-1)J.M(z,a,y+1)
J.K(z,a,y,x)
y=this.c
if(typeof y!="number")return y.j()
this.c=y+1
this.au(0),
ee: function(a,b) { var z,y,x
z=this.a
while(!0){y=this.c
if(typeof y!="number")return y.ae()
if(!y<b)break
x=y+1
this.c=x
if(y>J.y(z.a)-1)J.M(z.a,x)
J.K(z.a,y,0)\=J.p(J.j(z.a,b),a)
if(b>J.y(z.a)-1)J.M(z.a,b+1)
J.K(z.a,b,y)
for(J.a8(J.j(z.a,b),$.aE);\=J.G(J.j(z.a,b),$.aE)
if(b>J.y(z.a)-1)J.M(z.a,b+1)
J.K(z.a,b,y);++b
y=this.c
if(typeof y!="number")return H.i(y)
if(b>=y){x=y+1
this.c=x
if(y>J.y(z.a)-1)J.M(z.a,x)
J.K(z.a,y,0)\=J.p(J.j(z.a,b),1)
if(b>J.y(z.a)-1)J.M(z.a,b+1)
J.K(z.a,b,y)}},
lm:function(a,b,c){var z,y,x,w,v,u,t
z=c.a
y=a.a
x=this.c
w=a.c
if(typeof x!="number")return x.j()  
if(typeof w!="number")return H.i(w)
v=P.dl(x+w,b)
c.d=0
c.c=v
for(;v>0;){--v
if(v>J.y(z.a)-1)J.M(z.a,v+1)
J.K(z.a,v,0)}x=c.c
w=this.c
if(typeof x!="number")return x.m()  
if(typeof w!="number")return H.i(w)
u=x-w
for(v<u;++v){x=this.c
if(typeof x!="number")return H.i(x)
x=v+x
w=J.j(y.a,v)
t=this.c
t=this.b.$6(0,w,c,v,0,t)
if(x>J.y(z.a)-1)J.M(z.a,x+1)
J.K(z.a,x,t)\=for(u=P.dl(a.c,b);v<u;++v){x=J.j(y.a,v)
this.b.$6(0,x,c,v,0,b-v)}c.au(0)},
ln:function(a,b,c)\{var z,y,x,w,v,u,t
z=c.a
y=a.a
x=this.c
w=a.c
if(typeof x!="number")return x.j()  
if(typeof w!="number")return H.i(w)
v=P.dl(x+w,b)
c.d=0
c.c=v
for(;v>0;){--v
if(v>J.y(z.a)-1)J.M(z.a,v+1)
J.K(z.a,v,0)}x=c.c
w=this.c
if(typeof x!="number")return x.m()  
if(typeof w!="number")return H.i(w)
u=x-w
for(v<u;++v){x=this.c
if(typeof x!="number")return H.i(x)
x=v+x
w=J.j(y.a,v)
t=this.c
t=this.b.$6(0,w,c,v,0,t)
if(x>J.y(z.a)-1)J.M(z.a,x+1)
J.K(z.a,x,t)\=for(u=P.dl(a.c,b);v<u;++v){x=J.j(y.a,v)
this.b.$6(0,x,c,v,0,b-v)}c.au(0)},
ln:function(a,b,c)\{var z,y,x,w,v,u
z=c.a
y=a.a.-b
x=this.c
w=a.c
if(typeof x!="number")return x.j()
if(typeof w!="number")return H.i(w)
v=x+w-b
c.c=v
c.d=0
for(;--v,v>=0;){if(v>J.y(z.a)-1)J.M(z.a,v+1)
J.K(z.a,v,0)}x=this.c
if(typeof x!="number")return H.i(x)
v=P.ko(b-x,0)
while(!0){x=a.c
if(typeof x!="number")return H.i(x)
if(!(v<x))break
x=this.c
if(typeof x!="number")return x.j()
x=x+v-b
w=J.j(y.a,v)
u=this.c
if(typeof u!="number")return u.j()
u=this.b.$6(b-v,w,c,0,0,u+v-b)
if(x>J.y(z.a)-1)J.M(z.a,x+1)
J.K(z.a,x,u);++v}c.au(0)
c.cY(1,c)},
 aL:function(a,b,c){var z,y,x,w,v,u,t,s,r,q,p,o,n,m,l,k,j,i
z=b.gay()
y=b.aR(0)
x=B.H(null,null,null)
x.a5(1)
if(y<=0)return x
else if(y<18)w=1
else if(y<48)w=3
else if(y<144)w=4
else w=y<768?5:6
if(y<8)v=new B.lZ(c)
else if(J.l6(c)===!0){v=new B.lw(c,null,null,null)
u=B.H(null,null,null)
}else{v=new B.pE(c,null,null,null,null,null)
u=c.lb()
v.b = u
v.c = J.c(u, 32767)
v.d = J.C(u, 15)
u = $.Z
if(typeof u !== "number") return u.m()
v.e = C.b.X(1, u-15)-1
u = c.c
if(typeof u !== "number") return H.i(u)
v.f = 2*u)
r = H.f(new H.a0(0, null, null, null, null, 0), [null, null])
q = w-1
p = C.b.aQ(1, w)-1
r.k(0, 1, v.a4(this))
if(w > 1) { o = B.H(null, null, null)
v.bl(r.h(0, 1), o)
for(n=3; n < p; ) { r.k(0, n, B.H(null, null, null))
v.d9(o.r.h(0, n-2), r.h(0, n))
n += 2 } u = b.c
if(typeof u !== "number") return u.m()
m = u-1
l = B.H(null, null, null)
y = this.ew(J.j(z.a, m))-1
for(k=!0, j=null; m >= 0; ) { u = z.a
if(y < q) i = J.c(J.C(J.j(u, m), y-q), p)
else { i = J.v(J.c(J.j(u, m), C.b.X(1, y+1)-1), q-y)
if(m > 0) { u = J.j(z.a, m-1)
s = $.Z
if(typeof s !== "number") return s.j()
i = B.i(J.C(u, s+y-q)) } for(w; u = J.o(i), J.n(u.l(i, 1), 0); ) { i = u.n(i, 1); --n }
y -= n
if(y < 0) { u = $.Z
if(typeof u !== "number") return H.i(u)
y += u-; m) if(k) { j.k(l.r.h(0, i), x)
k = !1 } else { for(n > 1;) { v.bl(x, l)
v.bl(l, x)
n -= 2 } if(n > 0) v.bl(x, l)
else { j = x
x = l
l = j } v.d9(l.r.h(0, i), x) } while(!0) { if(!m > 0 & & J.n(J.c(J.j(z.a, m), C.b.X(1, y)), 0)) break
v.bl(x, l);--y
if(y < 0) { u = $.Z
if(typeof u !== "number") return u.m()
y = u-1; --m } j = x
x = l
l = j } return v.eF(x)
,
d8:function(a,b){var z,y,x,w,v,u,t,s,r,q,p,o
z=J.bu(b)
y=z.bN(b)
if(this.bN(0)& & y===!0||b.ai()==0) { x = B.H(null, null, null)
x.a5(0)
return x}w=z.cc(b)
v=this.cc(0)
if(v.ai()<0)v=v.h2()
x=B.H(null,null,null)
x.a5(1)
u=B.H(null,null,null)
u.a5(0)
t=B.H(null,null,null)
t.a5(0)
s=B.H(null,null,null)
s.a5(1)
for(r=y===!0;w.ai()!==0;){for(;w.bN(0)===!0;){w.aU(1,w)
if(r){q=x.a
p=x.c
if(typeof p!=='number')return p.B()
if(J.n(p>0?J.c(J.j(q.a,0),1):x.d,0)){q=u.a
p=u.c
if(typeof p!=='number')return p.B()
o=!J.n(p>0?J.c(J.j(q.a,0),1):u.d,0)
p=o}else p=!0
if(p){x.cU(this,x)
u.Z(b,u)}x.aU(1,x)}else{q=u.a
p=u.c
if(typeof p!=='number')return p.B()
if(!J.n(p>0?J.c(J.j(q.a,0),1):u.d,0))u.Z(b,u)}u.aU(1,u)}while(!0){q=v.a
p=v.c
if(typeof p!=='number')return p.B()
if(!J.n(p>0?J.c(J.j(q.a,0),1):v.d,0))break
v.aU(1,v)
if(r){q=t.a
p=t.c
if(typeof p!=='number')return p.B()
if(J.n(p>0?J.c(J.j(q.a,0),1):t.d,0)){q=s.a
p=s.c
if(typeof p!=='number')return p.B()
o=!J.n(p>0?J.c(J.j(q.a,0),1):t.d,0)
p=o}else p=!0
if(p){t.cU(this,t)
s.Z(b,s)}t.aU(1,t)}else{q=s.a
p=s.c
if(typeof p!=='number')return p.B()
if(!J.n(p>0?J.c(J.j(q.a,0),1):s.d,0))s.Z(b,s)}s.aU(1,s)}if(J.a8(w.S(0,v),0)){w.Z(v,w)
if(r){x.Z(t,x)
u.Z(s,u)}else{v.Z(v,v)
if(r){Z(x,t)
s.Z(u,s)}x=B.H(null,null,null)
x.a5(1)
if(J.n(v.S(0,x),0)){x=B.H(null,null,null)
x.a5(0) return x) if(J.a8(s.S(0,b),0){r=s.eZ(b) return this.ai()<0?z.m(b,r):r}if(s.ai()<0){r=s.eZ(b) return this.ai()<0?z.m(b,r):r}else return this.ai()<0?z.m(b,s):s if(s.ai()<0){r=s.K(0,b) return this.ai()<0?z.m(b,r):r}else return this.ai()<0?z.m(b,s):s}, j:function(a,b){return this.K(0,b)}, m:function(a,b){return this.eZ(b)}, v:function(a,b){ var z=B.H(null,null,null) this.da(b,z) return z}, A:function(a,b){return this.aV(0,b)}, aB:function(a,b){return this.h5(b)}, av:function(a){return this.b2()}, u:function(a,b){return this.K(0,b)}, m:function(a,b){return this.eZ(b)}, v:function(a,b){var z=B.H(null,null,null) this.da(b,z) return z}, a:function(a,b){return this.h5(b)}, X:function(a,b){var z,y z=B.H(null,null,null) y=J.o(b) if(y.u(b,0))this.aU(y.av(b),z) else this.d6(b,z) return z}, n:function(a,b){return this.dt(b)}, iy:function(a,b){B.lE(28) this.b=this.giU() this.a=H.f(new B.ia(H.f([],[P.q])),[P.q]) if(a!=null)if(typeof a==='number'&&Math.floor(a)===a)this.bK(C.b.p(a),10) else if(typeof a==='number')this.bK(C.b.p(C.d.b5(a)),10) else if(b===null&&!typeof a!=='string')this.bK(a,256) else this.bK(a,b)}, $isds:1, C:{ H:function(a,b,c){var z=new B.IC(null,null,null,0) z.iy(a,b,c) return z}, iE:function(a){var z,y
if ($.bx !== null) return
$.bx = H.f(new H.a0(0, null, null, null, null, null, 0), [null, null])
$.lF = ($.lI & 16777215) === 15715070
B.lH()
$.IG = 131844
$.hb = a
$.Z = a
z = C.b.aQ(1, a)
$.ay = z - 1
$.aE = z
$.h9 = 52
H.bt(2)
H.bt(52)
$.ha = Math.pow(2, 52)
z = $.h9
y = $.hb
if (typeof z !== "number") return z.m()
if (typeof y !== "number") return H.i(y)
$.er = z - y
$.es = 2 * y - z,
H: function() { var z, y, x
$.lD = "0123456789abcdefghijklmnopqrstuvwxyz"
$.bx = H.f(new H.a0(0, null, null, null, null, null, 0), [null, null])
for (z = 48, y = 0; y < 9; ++y, z = x) { x = z + 1
$.bx.k(0, z, y)} for (z = 97, y = 10; y < 36; ++y, z = x) { x = z + 1
$.bx.k(0, z, y)} for (z = 65, y = 10; y < 36; ++y, z = x) { x = z + 1
$.bx.k(0, z, y)} }) } }, ["", "", S, ["^": "", dw: ["^": "", d: "", lu: ["^": "", d: "", y_: ["^": "", "", Q, ["^": "", hN: ["^": "", d: "]}, dF: ["^": "", hN: b, a", q: function(a, b) { var z, y
if (b == null) return 1
if (! (b instanceof Q.dF)) return 1
z = b, a
y = this.a
return (z == null ? y == null : z == y) && & b, b.q(0, this.b)),
g: function(a) { return J.ao(this.a) + H.aM(this.b) }, dG: ["^": "", hN: b, a", q: function(a, b) { var z, y
if (b == null) return 1
if (! (b instanceof Q.dG)) return 1
z = b, a
y = this.a
return (z == null ? y == null : z == y) && & J.n(b, b, this.b)),
g: function(a) { var z, y
z = J.ao(this.a)
y = J.ao(this.b)
if (typeof y !== "number") return H.i(y)
return z + y }) } }, ["", "", F, ["^": "", q_: ["^": "", d: a, b", k: function(a, b, c) { this.a.k(0, b, c)
return],

---

**Open Source Used in Edge and Fog Processing Module 1.6.0**

329
kz:function(a){var z,y,x,w
z=this.a.h(0,a)
if(z!==null)return z.$1(a)
else for(y=this.b,x=0;1;++x){if(x==0)return H.a(y,x)
w=y.$1(a)
if(w!==null)throw H.b(new P.w("No algorithm with that name registered: "+a))}
}
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
}
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
]
for(y=x>6,v=x,v<r;++v){s=this.b
q=v-1
p=C.b.a_(q,2)
if(p>=s.length)return H.a(s,p)
o=J.Q(J.j(s[p],q&3))
s=C.b.A(v,x)
if(s===0){s=S.k7((C.b.a_(o,8)|(o&$.$get$dd()$[24])$<<24&4294967295)>>0)
q=$.$get$Y()
p=C.l.bJ(v/x-1)
if(p<0||p>=30)return H.a(q,p)
o=J.r(s,q[p])}else if(y&&s===4)o=S.k7(o)
s=this.b
q=v-x
p=C.b.a_(q,2)
if(p>=s.length)return H.a(s,p)
t=J.r(J.j(s[p],q&3),o)
q=this.b
p=C.b.a_(v,2)
if(p>=q.length)return H.a(q,p)
J.K(q[p],v&3,t)}

j7:function(a){var z,y,x,w,v,u,t,s,r,q,p,o,n
z=this.d
if(0>=a.length)return H.a(a,0)
this.d=J.r(J.Q(J.j(a[0],0)))
z=this.e
if(0>=a.length)return H.a(a,0)
this.e=J.r(J.Q(J.j(a[0],1)))
z=this.f
if(0>=a.length)return H.a(a,0)
this.f=J.r(z,J.Q(J.j(a[0],2)))
z=this.r
if(0>=a.length)return H.a(a,0)
this.r=J.r(z,J.Q(J.j(a[0],3)))
y=1
while(!0){z=this.c
if(typeof z!="number")return z.m()
if(!(y<z-1))break
z=$.$get$fw()
x=J.c(this.d,255)
if(x>>>0!==x||x>=255)return H.a(a,x)
x=z[x]
w=$.$get$fx()
v=J.c(J.C(this.e,8),255)
if(v>>>0!==v||v>=256)return H.a(z,v)
v=w[v]
u=$.$get$fy()
t=J.c(J.C(this.f,16),255)
if(t>>>0!==t||t>=256)return H.a(u,t)
t=u[t]
s=$.$get$fs()
r=J.c(J.C(this.r,24),255)
if(r>>>0!==r||r>=256)return H.a(s,r)
r=s[r]
if(y>=a.length)return H.a(a,y)
qu=x^v^t^r^J.Q(J.j(a[y],0))
r=J.c(this.e,255)
if(r>>>0!==r||r>=256)return H.a(z,r)
r=z[r]
t=J.c(J.C(this.f,8),255)
if(t>>>0!==t||t>=256)return H.a(w,t)
t=w[t]
v=J.c(J.C(this.r,16),255)
if(v>>>0!==v||v>=256)return H.a(u,v)
v=u[v]
x=J.c(J.C(this.d,24),255)
if(x>>>0!==x||x>=256)return H.a(s,x)
x=s[x]
if(y>=a.length)return H.a(a,y)
p=q^t^v^x^J.Q(J.j(a[y],1))
x=J.c(this.f,255)
if(x>>>0!==x||x>=256)return H.a(z,x)
x=z[x]
v=J.c(J.C(this.r,8),255)
if(v>>>0!==v||v>=256)return H.a(w,v)
v=w[v]
t=J.c(J.C(this.d,16),255)
if(t>>>0!==t||t>=256)return H.a(u,t)
t=u[t]
r=J.c(J.C(this.e,24),255)
if(r>>>0!==r|r>=256)return H.a(s,r)

t=s[r]
if(y>=a.length)return H.a(a,y)

o=x^v^t^r^J.Q(J.j(a[y],2))

r=J.c(this.r,255)
if(r>>>0!==r|r>=256)return H.a(z,r)

r=z[r]

if(t>>>0!==t|t>=256)return H.a(w,t)

t=w[t]

v=J.c(J.C(this.e,16),255)
if(v>>>0!==v|v>=256)return H.a(u,v)

v=u[v]

x=J.c(J.C(this.f,24),255)
if(x>>>0!==x|x>=256)return H.a(s,x)

x=s[x]

if(y>=a.length)return H.a(a,y)

n=r^t^v^x^J.Q(J.j(a[y],3));++y

x=z[q&255]

v=w[p>>>8&255]

t=u[o>>>16&255]

r=s[n>>>24&255]

if(y>=a.length)return H.a(a,y)

this.d=(x^v^t^r^J.Q(J.j(a[y],0)))>>>0

r=z[p&255]

t=w[o>>>8&255]

v=u[n>>>16&255]

x=s[q>>>24&255]

if(y>=a.length)return H.a(a,y)

this.e=(r^t^v^x^J.Q(J.j(a[y],1)))>>>0

x=z[o&255]

v=w[n>>>8&255]

t=u[q>>>16&255]

r=s[p>>>24&255]

if(y>=a.length)return H.a(a,y)

this.f=(x^v^t^r^J.Q(J.j(a[y],2)))>>>0

z=z[n&255]

w=w[q>>>8&255]

u=u[p>>>16&255]

s=s[o>>>24&255]

if(y>=a.length)return H.a(a,y)

this.r=(z^w^u^v^s^J.Q(J.j(a[y],3)))>>>0;++y]z=$.$get$fw()

x=J.c(this.d,255)

if(x>>>0!==x|x>=256)return H.a(z,x)

x=z[x]

w=$.$get$fx()
v = J.c(J.C(this.e, 8), 255)
if(v >>> 0 !== v || v >= 256) return H.a(w, v)
v = w[v]
u = $.getSfy()
t = J.c(J.C(this.f, 16), 255)
if(t >>> 0 !== t || t >= 256) return H.a(u, t)
t = u[t]
s = $.getSfz()
r = J.c(J.C(this.r, 24), 255)
if(r >>> 0 !== r || r >= 256) return H.a(s, r)
r = s[r]
if(y >= a.length) return H.a(a, y)
q = x ^ v ^ t ^ r ^ J.Q(J.i(a[y], 0))
r = J.c(this.e, 255)
if(r >>> 0 !== r || r >= 256) return H.a(s, r)
r = z[r]
t = J.c(J.C(this.f, 8), 255)
if(t >>> 0 !== t || t >= 256) return H.a(u, t)
t = w[t]
v = J.c(J.C(this.r, 16), 255)
if(v >>> 0 !== v || v >= 256) return H.a(u, v)
v = u[v]
x = J.c(J.C(this.d, 24), 255)
if(x >>> 0 !== x || x >= 256) return H.a(s, x)
x = s[x]
if(y >= a.length) return H.a(a, y)
p = r ^ t ^ v ^ x ^ J.Q(J.i(a[y], 1))
x = J.c(this.f, 255)
if(x >>> 0 !== x || x >= 256) return H.a(z, x)
x = z[x]
v = J.c(J.C(this.r, 8), 255)
if(v >>> 0 !== v || v >= 256) return H.a(w, v)
v = w[v]
t = J.c(J.C(this.d, 16), 255)
if(t >>> 0 !== t || t >= 256) return H.a(u, t)
t = u[t]
r = J.c(J.C(this.e, 24), 255)
if(r >>> 0 !== r || r >= 256) return H.a(s, r)
r = s[r]
if(y >= a.length) return H.a(a, y)
o = x ^ v ^ t ^ r ^ J.Q(J.i(a[y], 2))
r = J.c(this.r, 255)
if(r >>> 0 !== r || r >= 256) return H.a(z, r)
r = z[r]
z = J.c(J.C(this.d, 8), 255)
if(z >>> 0 !== z || z >= 256) return H.a(w, z)
z = w[z]
w = J.c(J.C(this.e, 16), 255)
if(w>>>0!==w||w>=256)return H.a(u,w)
w=u[w]
u=J.c(J.C(this.f,24),255)
if(u>>>0!==u||u>=256)return H.a(s,u)
u=s[u]
if(y>=a.length)return H.a(a,y)
n=r^z^w^u^J.Q(J.j(a[y],3));++y
u=$.$get$fu()
w=q&255
if(w>=u.length)return H.a(u,w)
w=J.c(u[w],255)
z=p>>>8&255
if(z>=u.length)return H.a(u,z)
z=J.r(w,J.v(J.c(u[z],255),8))
w=o>>>16&255
if(w>=u.length)return H.a(u,w)
w=J.r(z,J.v(J.c(u[w],255),16))
z=n>>>24&255
if(z>=u.length)return H.a(u,z)
z=J.r(w,J.v(u[z],24))
if(y>=a.length)return H.a(a,y)
this.d=J.r(z,J.Q(J.j(a[y],0)))
z=p&255
if(z>=u.length)return H.a(u,z)
z=J.c(u[z],255)
w=o>>>8&255
if(w>=u.length)return H.a(u,w)
w=J.r(z,J.v(J.c(u[w],255),8))
z=n>>>16&255
if(z>=u.length)return H.a(u,z)
z=J.r(w,J.v(J.c(u[z],255),16))
w=q>>>24&255
if(w>=u.length)return H.a(u,w)
w=J.r(z,J.v(u[w],24))
if(y>=a.length)return H.a(a,y)
this.e=J.r(w,J.Q(J.j(a[y],1)))
w=o&255
if(w>=u.length)return H.a(u,w)
w=J.c(u[w],255)
z=n>>>8&255
if(z>=u.length)return H.a(u,z)
z=J.r(w,J.v(J.c(u[z],255),8))
w=q>>>16&255
if(w>=u.length)return H.a(u,w)
w=J.r(z,J.v(J.c(u[w],255),16))
z=p>>>24&255
if(z>=u.length)return H.a(u,z)
z=J.r(w,J.v(u[z],24))
if(y>=a.length)return H.a(a,y)
this.f=J.r(z,J.Q(J.j(a[y],2)))
z=n&255
if(z>=u.length)return H.a(u,z)
z=J.c(u[z],255)
w=q>>>8&255
if(w>=u.length)return H.a(u,w)
w=J.r(z,J.v(J.c(u[w],255),8))
z=p>>>16&255
if(z>=u.length)return H.a(u,z)
z=J.r(w,J.v(J.c(u[z],255),16))
w=o>>>24&255
if(w>=u.length)return H.a(u,w)
w=J.r(z,J.v(u[w],24))
if(y>=a.length)return H.a(a,y)
this.r=J.r(w,J.Q(J.j(a[y],3)))
}
j5:function(a){var z,y,x,w,v,u,t,s,r,q,p,o,n
z=this.d
y=this.c
if(y>>>0!==y||y>=a.length)return H.a(a,y)
this.d=J.r(z,J.Q(J.j(a[y],0)))
y=this.e
z=this.c
if(z>>>0!==z||z>=a.length)return H.a(a,z)
this.e=J.r(y,J.Q(J.j(a[z],1)))
z=this.f
y=this.c
if(y>>>0!==y||y>=a.length)return H.a(a,y)
this.f=J.r(z,J.Q(J.j(a[y],2)))
y=this.r
z=this.c
if(z>>>0!==z||z>=a.length)return H.a(a,z)
this.r=J.r(y,J.Q(J.j(a[z],3)))
z=this.c
if(typeof z!="number")return z.m()
x=z-1
for(;x>1;){z=$.$get$fA()
y=J.c(this.d,255)
if(y>>>0!==y||y>=256)return H.a(z,y)
y=z[y]
w=$.$get$fB()
v=J.c(J.C(this.r,8),255)
if(v>>>0!==v||v>=256)return H.a(w,v)
v=w[v]
u=$.$get$fC()
t=J.c(J.C(this.f,16),255)
if(t>>>0!==t||t>=256)return H.a(u,t)
t=u[t]
s=$.get$hD()
r=J.c(J.C(this.e,24),255)
if(r>>>0!==r|r>=256)return H.a(s,r)
r=s[r]
if(x>=a.length)\nq=y^v^t^r^J.I(image\[a[x]\]))
r=J.c(this.e,255)
if(r>>>0!==r|r>=256)return H.a(z,r)
r=z[r]
t=J.c(J.C(this.d,8),255)
if(t>>>0!==t|t>=256)return H.a(w,t)
t=w[t]
v=J.c(J.C(this.r,16),255)
if(v>>>0!==v|v>=256)return H.a(u,v)
v=u[v]
y=J.c(J.C(this.f,24),255)
if(y>>>0!==y|y>=256)return H.a(s,y)
y=s[y]
if(x>=a.length)\np=r^t^v^y^J.I(image\[a[x]\]))
y=J.c(this.f,255)
if(y>>>0!==y|y>=256)return H.a(z,y)
y=z[y]
v=J.c(J.C(this.e,8),255)
if(v>>>0!==v|v>=256)return H.a(u,v)
v=w[v]
t=J.c(J.C(this.d,16),255)
if(t>>>0!==t|t>=256)return H.a(u,t)
t=u[t]
r=J.c(J.C(this.r,24),255)
if(r>>>0!==r|r>=256)return H.a(s,r)
r=s[r]
if(x>=a.length)\no=y^v^t^r^J.I(image\[a[x]\]))
r=J.c(this.e,255)
if(r>>>0!==r|r>=256)return H.a(z,r)
r=z[r]
t=J.c(J.C(this.f,8),255)
if(t>>>0!==t|t>=256)return H.a(w,t)
t=w[t]
v=J.c(J.C(this.e,16),255)
if(v>>>0!==v|v>=256)return H.a(u,v)
v=u[v]
y=J.c(J.C(this.d,24),255)
if(y>>>0!==y|y>=256)return H.a(s,y)
y=s[y]
if(x>=a.length)\nreturn H.a(a,x)
n=r^t^v^y^\nJ.I(image\[a[x]\]);--x

y=z[q&255]
v=w[n>>>8&255]
t=u[o>>>16&255]
r=s[p>>>24&255]
if(x>=a.length) return H.a(a,x)
this.d=(y^v^t^r^J.Q(J.j(a[x],0)))>>>0
r=z[p&255]
t=w[q>>>8&255]
v=u[n>>>16&255]
y=s[o>>>24&255]
if(x>=a.length) return H.a(a,x)
this.e=(t^r^y^J.Q(J.j(a[x],1)))>>>0
y=z[o&255]
v=w[p>>>8&255]
t=u[q>>>16&255]
r=s[n>>>24&255]
if(x>=a.length) return H.a(a,x)
this.f=(y^v^t^r^J.Q(J.j(a[x],2)))>>>0
z=z[n&255]
w=w[o>>>8&255]
u=u[p>>>16&255]
s=s[q>>>24&255]
if(x>=a.length) return H.a(a,x)
this.r=(z^w^u^s^J.Q(J.j(a[x],3)))>>>0;--x}z=$.$get$fA()
y=J.c(this.d,255)
if(y>>>0!==y||y>=256)return H.a(z,y)
y=z[y]
w=$.$get$fB()
v=J.c(J.C(this.r,8),255)
if(v>>>0!==v||v>=256)return H.a(w,v)
v=w[v]
u=$.$get$fC()
t=J.c(J.C(this.f,16),255)
if(t>>>0!==t||t>=256) return H.a(u,t)
t=u[t]
s=$.$get$fD()
r=J.c(J.C(this.e,24),255)
if(r>>>0!==r||r>=256)return H.a(s,r)
r=s[r]
if(x<0|x>=a.length) return H.a(a,x)
q=y^v^t^r^J.Q(J.j(a[x],0))
r=J.c(this.e,255)
if(r>>>0!==r||r>=256) return H.a(z,r)
r=z[r]
t=J.c(J.C(this.d,8),255)
if(t>>>0!==t||t>=256) return H.a(w,t)
t=w[t]
v=J.c(J.C(this.r,16),255)
if(v>>>0!==v|v>=256)return H.a(u,v)
v=u[v]
y=J.c(J.C(this.f,24),255)
if(y>>>0!==y|y>=256)return H.a(s,y)
y=s[y]
if(x>=a.length)return H.a(a,x)
p=r^t^v^y^J.Q(J.j(a[x],1))
y=J.c(this.f,255)
if(y>>>0!==y|y>=256)return H.a(z,y)
y=z[y]
v=J.C(this.e,8,255)
if(v>>>0!==v|v>=256)return H.a(w,v)
v=w[v]
t=J.C(this.d,16,255)
if(t>>>0!==t|t>=256)return H.a(u,t)
t=u[t]
r=J.C(this.r,24,255)
if(r>>>0!==r|r>=256)return H.a(s,r)
r=s[r]
if(x>=a.length)return H.a(a,x)
o=y^v^t^r^J.Q(J.j(a[x],2))
r=J.c(this.r,255)
if(r>>>0!==r|r>=256)return H.a(z,r)
r=z[r]
z=J.C(this.f,8,255)
if(z>>>0!==z|z>=256)return H.a(w,z)
z=w[z]
w=J.C(this.e,16,255)
if(w>>>0!==w|w>=256)return H.a(u,w)
w=u[w]
u=J.C(this.d,24,255)
if(u>>>0!==u|u>=256)return H.a(s,u)
u=s[u]
if(x>=a.length)return H.a(a,x)
n=r^z^w^u^J.Q(J.j(a[x],3))
u=$.get$H()
w=q&255
if(w>=u.length)return H.a(u,w)
w=J.c(u[w],255)
z=n>>>8&255
if(z>=u.length)return H.a(u,z)
z=J.r(w,J.v(J.c(u[z],255),8))
w=o>>>16&255
if(w>=u.length)return H.a(u,w)
w=J.r(z,J.v(J.c(u[w],255),16))
z=p>>>24&255
if(z>=u.length)return H.a(u,z)
z=J.r(w,J.v(u[z],24))
if(0>=a.length)return H.a(a,0)
this.d=J.r(z,J.Q(j[a[0]]))
z=p&255
if(z>=u.length)return H.a(u,z)
z=J.c(u[z],255)
w=q>>>8&255
if(w>=u.length)return H.a(u,w)
w=J.r(z,J.v(J.c(u[w],255),8))
z=n>>>16&255
if(z>=u.length)return H.a(u,z)
z=J.r(w,J.v(J.c(u[w],255),16))
w=o>>>24&255
if(w>=u.length)return H.a(u,w)
w=J.r(z,J.v(u[w],24))
if(0>=a.length)return H.a(a,0)
this.e=J.r(w,J.Q(j[a[0]],1))
w=o&255
if(w>=u.length)return H.a(u,w)
w=J.c(u[w],255)
z=p>>>8&255
if(z>=u.length)return H.a(u,z)
z=J.r(w,J.v(J.c(u[z],255),8))
w=q>>>16&255
if(w>=u.length)return H.a(u,w)
w=J.r(z,J.v(J.c(u[w],255),16))
z=n>>>24&255
if(z>=u.length)return H.a(u,z)
z=J.r(w,J.v(u[z],24))
if(0>=a.length)return H.a(a,0)
this.f=J.r(z,J.Q(j[a[0]],2))
z=n&255
if(z>=u.length)return H.a(u,z)
z=J.c(u[z],255)
w=o>>>8&255
if(w>=u.length)return H.a(u,w)
w=J.r(z,J.v(J.c(u[w],255),8))
z=p>>>16&255
if(z>=u.length)return H.a(u,z)
z=J.r(w,J.v(J.c(u[z],255),16))
w=q>>>24&255
if(w>=u.length)return H.a(u,w)
w=J.r(z,J.v(u[w],24))
if(0>=a.length)return H.a(a,0)
this.r=J.r(w,J.Q(j[a[0]],3)))
ff:function(a,b){this.d=R.el(a,b,C.f)
this.e=R.el(a,b+4,C.f)
this.f=R.el(a,b+8,C.f)
this.r=R.el(a,b+12,C.f),
fn: function(a, b) { R.ei(this.d, a, b, C.f) 
R.ei(this.e, a, b + 4, C.f) 
R.ei(this.f, a, b + 8, C.f) 
R.ei(this.r, a, b + 12, C.f) },
lt: {"":"m:26;"},
S1: function(a) { var z = new Array(4) 
z.fixedLength = Array 
return H.f(z, [P.q]) },
lt: "m:26;",}

ez: function(a) { var z, y, x, w, v, u, t, s, r 
z = J.y(a) 
y = this.jP(a, 0, z) 
x = z - y 
w = this.jQ(a, y, x) 
this.jN(a, y + w, x - w) 
z = this.z 
v = new Uint8Array(H.a6(z)) 
u = new R.d5(null, null) 
uc2(0, this.a, null) 
t = R.kv(u, a, 3) 
ua = t 
ua = J.B(t, C(u, b, 29)) 
ub = R.kv(u, b, 3) 
this.jO() 
t = this.x 
if(typeof t !== "number") return t.B() 
if(t > 14) this.fc() 
t = this.d 
switch(t) { case C.f: t = this.r 
s = u, b 
r = t.length 
if(14 >= r) return H.a(t, 14) 
t[14] = s 
s = u, a 
if(15 >= r) return H.a(t, 15) 
t[15] = s 
break 
case C.j: t = this.r 
s = u, a 
r = t.length 
if(14 >= r) return H.a(t, 14) 
t[14] = s 
s = u, b 
if(15 >= r) return H.a(t, 15) 
t[15] = s 
break 
default: H.x(new P.I("Invalid endianness: " + t.p(0))) this.fc() 
this.jK(v, 0) 
this.hs(0)
return C.h.U(v,0,z)}],"^","."\{"^":",".pz:{"^":"lz;","hs:function(a){var z,y
this.a.i9(0,0)
this.c=0
C.h.ak(this.b,0,4,0)
this.x=0
z=this.r
C.c.ak(z,0,z.length,0)
z=this.f
y=z.length
if(0>y)return H.a(z,0)
z[0]=1779033703
if(1>y)return H.a(z,1)
z[1]=3144134277
if(2>y)return H.a(z,2)
z[2]=1013904242
if(3>y)return H.a(z,3)
z[3]=2773480762
if(4>y)return H.a(z,4)
z[4]=1359893119
if(5>y)return H.a(z,5)
z[5]=2600829224
if(6>y)return H.a(z,6)
z[6]=528734635
if(7>y)return H.a(z,7)
z[7]=1541459225},
m7:function(a){var z,y,x
z=this.b
y=this.c
if(typeof y!="number")return y.j()
x=y+1
this.c=x
if(y>=4)return H.a(z,y)
z[y]=a&255
if(x===4){y=this.r
x=this.x
z=z.buffer
z.toString
H.au(z,0,null)
a=new DataView(z,0)
z=a.getUint32(0,C.f===this.d)
if(x>=y.length)return H.a(y,x)
y[x]=z
if(this.x===16){this.bV()
this.x=0
C.c.ak(y,0,16,0)}this.c=0|this.a.c3(1),

Open Source Used In Edge and Fog Processing Module 1.6.0
342
fc:function(){this.bV()}
this.x=0
C.c.ak(this.r(0,16,0)),
jN:function(a,b,c){var z,y,x,w,v,u,t,s,r
for(z=this.a,y=J.D(a),x=this.b,w=this.r,v=this.d;c>0;){u=y.h(a,b)
t=this.c
if(typeof t!=='number')return t.j()
s=t+1
this.c=s
if(t>=4)return H.a(x,t)
x[t]=u&255
if(s===4){u=this.x
if(typeof u!=='number')return u.j()
this.x=u+1
t=x.buffer
H.au(t,0,null)
r=new DataView(t,0)
t=r.getUint32(0,C.f===v)
if(u>=w.length)return H.a(w,u)
w[u]=t
if(this.x===16){this.bV()
this.x=0
C.c.ak(w,0,16,0)}this.c3(1);++b;--c}}
jQ:function(a,b,c){var z,y,x,w,v,u,t,s,
for(z=this.a,y=this.r,x=this.d,w=J.L(a),v=0;c>4;){u=this.x
if(typeof u!=='number')return u.j()
this.x=u+1
t=w.ge9(a)
t.toString
H.au(t,0,null)
s=new DataView(t,0)
t=s.getUint32(b,C.f===x)
if(u>=y.length)return H.a(y,u)
y[u]=t
if(this.x===16){this.bV()
this.x=0
C.c.ak(y,0,16,0)}b+=4
c-=4
z.c3(4)
v+=4}return v}.
jp:function(a,b,c){var z,y,x,w,v,u,t,s,r,q
z=this.a
y=J.D(a)
x=this.b
w=this.r
v=this.d
u=0
while(!0){if(!(this.c!==0&&c>0))break
  t=y.h(a,b)
  s=this.c
  if(typeof s!="number")return s.j()
  r=s+1
  this.c=r
  if(s>=4)return H.a(x,s)
  x[s]=t&255
  if(r===4){t=this.x
    if(typeof t!="number")return t.j()
    this.x=t+1
  }s=x.buffer
  s.toString
  H.au(s,0,null)
  q=new DataView(s,0)
  s=q.getUint32(0,C.f===v)
  if(t>=w.length)return H.a(w,t)
  w[t]=s
  if(this.x===16){this.bV()
    this.x=0
    C.c.ak(w,0,16,0)}this.c=0}
  z.c3(1);++b;--c;++u}return u,

jO:function(){var z,y,x,w,v,u,t,s
  for(z=this.a,y=this.b,x=this.r,w=this.d,v=0;v<this.c;v!==0;){if(typeof v!="number")return v.j()
    u=v+1
    this.c=u
    if(v>=4)return H.a(y,v)
    y[v]=0
    if(u===4){v=this.x
      if(typeof v!="number")return v.j()
      this.x=v+1
      u=y.buffer
      u.toString
      H.au(u,0,null)
      t=new DataView(u,0)
      u=t.getUint32(0,C.f===w)
      if(v>=x.length)return H.a(x,v)
      x[v]=u
      if(this.x===16){this.bV()
        this.x=0
        C.c.ak(x,0,16,0)}this.c=0}
  }z.c3(1)}},

jK:function(a,b){var z,y,x,w,v,u,t,s
  for(z=this.e,y=this.f,x=y.length,w=this.d,v=0;v<this.c;v!==0;){if(typeof v!="number")return v.j()
    u=v+1
    if(u===4){v=this.x
      if(typeof v!="number")return v.j()
      this.x=v+1
      u=y.buffer
      u.toString
      H.au(u,0,null)
      t=new DataView(u,0)
      u=t.getUint32(0,C.f===w)
      if(v>=x.length)return H.a(x,v)
      x[v]=u
      if(this.x===16){this.bV()
        this.x=0
        C.c.ak(x,0,16,0)}this.c=0}
  }z.c3(1)}}
for(z=this.r,y=z.length,x=16;x<64;++x){w=x-2
if(w>=y)return H.a(z,w)
w=z[w]
v=J.o(w)
u=J.p(w,z[v])
w=x-15
if(v>=y)return H.a(z,v)
w=x-7
if(v>=y)return H.a(z,v)
v=x-7
if(v>=y)return H.a(z,v)
v=x-16
if(u>=y)return H.a(z,u)
u=J.c(J.p(w,z[u]),4294967295)
if(x>=y)return H.a(z,x)
z[x]=u}w=this.f
v=w.length
if(0>=v)return H.a(w,0)
s=w[0]
if(1>=v)return H.a(w,1)
r=w[1]
if(2>=v)return H.a(w,2)
q=w[2]
if(3>=v)return H.a(w,3)
p=w[3]
if(4>=v)return H.a(w,4)
o=w[4]
if(5>=v)return H.a(w,5)
n=w[5]
if(6>=v)return H.a(w,6)
m=w[6]
if(7>=v)return H.a(w,7)
l=w[7]
for(x=0,k=0;k<8;++k){v=J.bS(o)
u=v.n(o,6)
t=S.$getSdd()
u=J.p(J.p(J.r(J.B(u,J.c(J.v(v.l(o,t[26]),26),4294967295)),J.B(v.n(o,11),J.c(J.v(v.l(o,t[21]),21),4294967295)))))
J.B(v.n(o,25),J.c(J.v(v.l(o,t[7]),7,4294967295)))))
J.r(v.l(o,n),J.c(v.ar(o),m)))
j=S.$getSiO()
if(x>=64)return H.a(j,x)
u=J.p(u,[x])
if(x>y)return H.a(a,z,x)
l=J.c(J.p(u,[x]),4294967295)
p=J.c(J.p(p,l),4294967295)
u=J.o(s)
i=J.o(l)
l=J.c(J.p(J.r(J,r(J,B(u.n(s,2),J.c(J.v(u.l(s,[30]),30),4294967295)),J.B(u.n(s,13),J.c(J.v(u.l(s,[19]),19),4294967295)),J.B(u.n(s,22),J.c(J.v(u.l(s,[10]),10),4294967295))))),J.r(J.r(J.r(J.r(J.r(u.l(s,r),u.l(s,q)),i.l(r.q)))).4294967295));++x
h=J.bS(p)
g=J.p(J.m,r(J.r(J,B(h.n(p,6),J.c(J.v(h.l(p,[26]),26),4294967295)),J.B(h.n(p,11),J.c(J.v(h.l(p,[21]),21),4294967295))))),J.B(h.n(p,25),J.c(J.r(J.r(J.r(J.r(u.l(p,[7]),7),4294967295))))),J.r(J.r(J.r(J.r(u.l(p,o),J.c(h.ar(r,p)))).4294967295));++x
if(x>=64)return H.a(a,j,x)
g=J.p(g,[x])
if(x>y)return H.a(a,z,x)
m=J.c(J.p(g,[x]),4294967295)
q=J.c(J.p(q,m),4294967295)
g=J.o(l)
m=J.c(J.p(J.p(m,r(J.r(J.r(J.B(h.n(p,6),J.c(J.v(h.l(p,[26]),26),4294967295)),J.B(h.n(p,11),J.c(J.v(h.l(p,[21]),21),4294967295))))),J.B(h.n(p,25),J.c(J.r(J.r(J.r(J.r(u.l(p,[7]),7),4294967295))))),J.r(J.r(J.r(J.r(u.l(p,o),J.c(h.ar(r,p)))).4294967295));++x
f=J.bS(q)
e=J.p(J.p(n,r(J.r(J.B(f.n(q,6),J.c(J.v(f.l(q,[26]),26),4294967295)),J.B(f.n(q,11),J.c(J.v(f.l(q,[21]),21),4294967295))))),J.B(f.n(q,25),J.c(J.r(J.r(J.r(J.r(u.l(q,[7]),7),4294967295))))),J.r(J.r(J.r(J.r(u.l(q,p),J.c(f.ar(q,o)))).4294967295))))
if(x>=64)return H.a(a,j,x)
e=J.p(e,[j])
if(x>y)return H.a(a,z,x)
n=J.c(J.p(e,[z]),4294967295)
r=J.c(J.p(m,r(J.r(J.r(J.B(n.n(m,2),J.c(J.v(n.l(m,[30]),30),4294967295)),J.B(n.n(m,13),J.c(J.v(n.l(m,[19]),19),4294967295)),J.B(n.n(m,22),J.c(J.v(n.l(m,[10]),10),4294967295))))),J.r(J.r(J.r(n.l(m,l),n.l(m,s)),g.l(l,s)))).4294967295));++x
e=J.bS(r)
v=J.p(v.o,r(J.r(J.B(e.n(r,6),J.c(J.v(e.l(r,[26]),26),4294967295)),J.B(e.n(r,11),J.c(J.v(e.l(r,[21]),21),4294967295))))),J.B(e.n(r,25),J.c(J.r(e.l(r,[7]),7),4294967295)))))J.r(J.r(J.r(j.c(e.ar(r,p)))).4294967295))
if(x>=64)return H.a(a,j,x)
v=J.p(v,[x])
if(x>y)return H.a(a,z,x)
o=J.c(J.p(v,[x]),4294967295)
s=J.c(J.p(s,o),4294967295)
u=J.o(n)
o=J.c(J.p(o,r(J.r(J.B(u.n(n,2),J.c(J.v(u.l(n,[30]),30),4294967295)),J.B(u.n(n,13),J.c(J.v(u.l(n,[19]),19),4294967295)),J.B(u.n(n,22),J.c(J.v(u.l(n,[10]),10),4294967295))))),J.r(J.r(J.r(J.r(u.l(n,m),u.l(n,l)),i.l(m,l)))).4294967295));++x
v=J.bS(s)
h=J.p(h,j(p,r(J.r(J.B(v.n(s,6),J.c(J.v(v.l(s,[26]),26),4294967295)),J.B(v.n(s,11),J.c(J.v(v.l(s,[21]),21),4294967295)))J,B(v.n(s,25),J.c(J.r(J.r(J.r(J.r(u.l(s,[7]),7),4294967295))))),J.r(J.r(J.r(J.r(u.l(s,r),J.c(v.ar(s,q)))).4294967295))))
if(x>=64)return H.a(a,j,x)
h=J.p(h,[j])
if(x>y)return H.a(a,z,x)
p=J.c(J.p(h,z[x]),4294967295)
l=J.c(g,j[p],4294967295)
g=J.o(o)
p=J.c(J.p(p,J.r(J.r(J.B(g.n(o,2),J.c(J.v(g.l(o,t[30]),30),4294967295)),19),4294967295)),J.B(g.n(o,22),J.c(J.v(g.l(o,t[10]),10),4294967295))));
if(x>=64) return H(a[j,x])
h=J.pr(J.r(J.r(J.B(h.n(l,6),J.c(J.v(h.l(l[t[26]),7,4294967295])),J.r(h.l(l[s]),J.c(h.ar(l,r)))))
i=J.o(p)
qu=J.c(J.p(J.p(J.r(J.r(J.B(h.n(l,6),J.c(J.v(h.l(l[t[26]),7,4294967295])),J.r(h.l(l[s]),J.c(h.ar(l,r))))
   if(x>=64) return H(a[j,x])
h=J.pr(J.r(J.r(J.B(h.n(l,6),J.c(J.v(h.l(l[t[26]),7,4294967295])),J.r(h.l(l[s]),J.c(h.ar(l,r))))
if(x>=y) return H(a[z,x])
qu=J.c(J.p(h[z],x),4294967295)
m=J.c(i[m,q],4294967295)
i=J.o(p)
q=J.c(J.p(J.p(J.r(J.r(J.B(i.n(p,2),J.c(J.v(i.l(p,t[30]),30),4294967295)),J.r(i.l(p,o),i.p[n]),g.l(o,n)))),4294967295));++x
h=J.bS(m)
h=J.p(e[j,0])
if(x>=64) return H(a[j,x])
h=J.p(h[i,j])
if(x>=y) return H(a[z,x])
r=J.c(J.p(h[z],x),4294967295)
n=J.c(u[j,n],r),4294967295)
u=J.o(q)
r=J.c(J.p(r,J.r(J.B(h.n(m,6),J.c(J.v(h.l(m[t[26]),7,4294967295])),J.r(h.l(m[l],J.c(h.ar(m,l))))))
if(x>=64) return H(a[j,x])
j=J.p(i[j,x])
if(x>=y) return H(a[z,x])
s=J.c(J.p(j[z],x),4294967295)
o=J.c(g[j,o],s),4294967295)
g=J.o(r)
s=J.c(J.p(J.p(J.r(J.r(J.B(g.n(r,2),J.c(J.v(g.l(r,t[30]),30),4294967295)),19),4294967295)),J.B(g.n(r,22),J.c(J.v(g.l(r,t[10]),10),4294967295))));
if(x>=64) return H(a[j,x])
w[1]=J.c(J.p(w[1],r),4294967295)
w[2]=J.c(J.p(w[2],q),4294967295)
w[3]=J.c(J.p(w[3],p),4294967295)
w[4]=J.c(J.p(w[4],o),4294967295)
w[5]=J.c(J.p(w[5],n),4294967295)
w[6]=J.c(J.p(w[6],m),4294967295)
w[7]=J.c(J.p(w[7],l),4294967295))))

Open Source Used In Edge and Fog Processing Module 1.6.0

347
```
slL:function(a){this.f=a},
q:function(a,b){var z
if(b==null)return
if(b instanceof S.dE)z=this.b
if(z==null&&this.c==null)return b.b==null&&b.c==null
return J.n(z.b)&&J.n(this.c,b.c{return
p:function(a)typeof b=="string"?
  "+J.aR(b)+","+J.aR(this.c)+"")
},gA1:function(a){var z=this.b
if(z==null&&this.c==null)return 0
return J.n(z,b.b&&J.n(this.c,b.c)}},nD:
  function(a){var z,y,x,w,v,u,t,s,r,q,p
z=J.aR(0)
y=J.aR(0)
if(typeof y!="number")return y.j()
x=C.d.a0(0+7,8)
y=C.c(y.h(a,0),1)
switch(y.h(a,0)){case 0:throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null)return this
if((b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
if(eh:function(a){var z,y,x,w,v,u,t,s,r,q,p
z=J.aR(0)
y=J.aR(0)
if(typeof y!="number")return y.j()
x=C.d.a0(0+7,8)
y=C.c(y.h(a,0),1)
switch(y.h(a,0)){case 0:throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null)return this
if((b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null)return this
if(b.ai()===0)return this.a.d
if(s==null&&this.c==null)return this
if((b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null)return this
if((b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null)return this
if((b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null)return this
if((b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null)return this
if((b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null)return this
if((b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null)return this
if((b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null)return this
if((b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null)return this
if((b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null)return this
if((b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null)return this
if((b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null)return this
if((b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null)return this
if((b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null)return this
if((b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null)return this
if((b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null)return this
if((b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
if(s==null&&this.c==null{return
w=1+x
u=Z.bg(1,y.U(a,1,1+x))
t=new E.a.f(z,u)
if(u.J(0,z))H.x(P.N("Value x must be smaller than q"))
s=t.v(0,t.v(0,0),j(0,0)),j(0,0),i.e()
if(s==null&&H.x(P.N("Invalid point compression"))
r=s.b
if((r.bg(0)?1:0)===v){y=z.m(0,r)
s=new E.a.f(z,y)
if(y.J(0,z))H.x(P.N("Value x must be smaller than q"))}w=E.c1(this,t,s,0)
break
case 4:case 6:case 7:if(!J.n(y.gi(a),2*x+1))throw H.b(P.N("Incorrect length for uncompressed/hybrid encoding"))
q=1+x
u=Z.bg(1,y.U(a,1,q))
p=Z.bg(1,y.U(a,q,q+x))
if(u.J(0,z))H.x(P.N("Value x must be smaller than q"))
if(p.J(0,z))H.x(P.N("Value x must be smaller than q"))
w=E.c1(this,new E.a.f(z,u),new E.a.f(z,p),11)
break
default:throw H.b(P.N("Invalid point encoding 0x"+J.bW(y.h(a,0),16)))}}{"^":":"","E.^[":":"",
}
yU:function(a,b,c){var z,y,x,w,v,u,t,s,r,q,p,n
z=c==null&&!(c instanceof E.jV)?new E.jV(null,null):c
y=J.fW(b)
```
x=J.o(y)
if(x.u(y,13)) {w=2
v=1}
else if(x.u(y,41)) {w=3
v=2}
else if(x.u(y,121)) {w=4
v=4}
else if(x.u(y,337)) {w=5
v=8}
else if(x.u(y,897)) {w=6
v=16}
else if(x.u(y,2305)) {w=7
v=32}
else {w=8
v=127}
u=z.glK()
t=z.b
if(u==null) {u=P.pt(1,a,1,E.cT)
s=1}
else s=u.length
if(t==null) {t=a.eK()}
if(s<v) {x=new Array(v)
x.fixed$length=Array}
r=H.f(x,[E.cT])
C.c.ek(r,0,u)
for(x=r.length,q=s;q<v;++q) {
p=q-
if(p<0||p>=x) return H.a(r,p)
p=t.j(0,r[p])
if(q>=x) return H.a(r, q)
r[ q ]= p }
u=r|o=E.uw(w,b)

n=K.T(a).gl6()
for(q=o.length-1;q>=0;--q) {
if(!J.n(o[q],0)) {x=J.T(o[q],0)}
p=q}
if(x) {x=J.cK(J.G(p,1),2)
if(x>>0!=x||x>=u.length) return H.a(u,x)
n=n.j(0,u[x])}
else {x=J.cK(J.G(J.Em(p),1),2)
if(x>>0!=x||x>=u.length) return H.a(u,x)
n=n.m(0,u[x])}
}
z.b=t
a.sll(z)
return n}, "$3", "uT", 6,0,45],

uw:function(a,b) {var z,y,x,w,v,u,t,s,r,q
z=J.p(J.fW(b),1)
if(typeof z!="number") return H.i(z)
y=H.f(new Array(z),[P.q])
x=C.b.aQ(1,a)
w=Z.aZ(x,null,null)
for(z=y.length,v=a-1,u=0,t=0;b.ai()>0;) {
if(b.bg(0)) {s=b.d7(w)
if(s.bg(v)) {r=J.G(s.cj(),x)
if(u>=z) return H.a(y,u)
y[u]=r}
else {s.cj()}
if(u>=z) return H.a(y,u)
y[u]=r}
if(u>=z) return H.a(y,u)
y[u]=r}
if(u>=z) return H.a(y,u)
r=J.cj(r,256)
y[u]=r}
if(J.n(J.c(r,128),0))y[u]=J.G(y[u],256)
b=b.m(0,Z.aZ(y[u],null,null))
t=u}else{if(u>=z)return H.a(y,u)
y[u]=0}b=b.dt(1);++u}++t
z=new Array(t)
z.fixedSlength=Array
q=H.f(z,[P.q])
C.c.bk(q,0,C.c.U(y,0,t))
return q},
k8:function(a,b){var z,y,x
z=new Uint8Array(H.b5(a.cu()))
y=z.length
if(b<y)return C.h.as(z,y-b)
else if(b>y){x=new Uint8Array(H.a6(b))
C.h.bk(x,b-y,z)
return x}return z},
af:{"^":"nI;a,E:b>",
dg:function(){return this.b},
j:function(a,b){var z,y
z=this.a
y=this.b.j(0,b.dg()).A(0,z)
if(y.J(0,z))H.x(P.N("Value x must be smaller than q"))
return new E.af(z,y)},
m:function(a,b){var z,y
z=this.a
y=this.b.m(0,b.dg()).A(0,z)
if(y.J(0,z))H.x(P.N("Value x must be smaller than q"))
return new E.af(z,y)},
v:function(a,b){var z,y
z=this.a
y=this.b.v(0,b.dg()).A(0,z)
if(y.J(0,z))H.x(P.N("Value x must be smaller than q"))
return new E.af(z,y)},
cB:function(a,b){var z,y
z=this.a
y=this.b.v(0,b.d8(0,z)).A(0,z)
if(y.J(0,z))H.x(P.N("Value x must be smaller than q"))
return new E.af(z,y)},
av:function(a){var z,y
z=this.a
y=this.b.av(0).A(0,z)
if(y.J(0,z))H.x(P.N("Value x must be smaller than q"))
return new E.af(z,y)},
ie:function(){var z,y,x,w,v,u,t,s,r,q,p,o
z=this.a
if(!z.bg(0))throw H.b(new P.bq("Not implemented yet"))
if(z.bg(1)){y=this.b.aL(0,z.n(0,2).j(0,Z.by()),z)
x=new E.af(z,y)
if(y.J(0,z))H.x(P.N("Value x must be smaller than q"))
y=y.aL(0,Z.co(),z)
if(y.J(0,z))H.x(P.N("Value x must be smaller than q"))
return new E.af(z,y).q(0,this)?x:null
w=z.m(0,Z.by())
v=w.n(0,1)
y=this.b
if(!y.aL(0,v,z).q(0,Z.by()))return
u=w.n(0,2).X(0,1).j(0,Z.by())
t=y.n(0,2).A(0,z)
s=${$.get$iq().kz(""})
do{do r=s.hi(z.aR(0))
while(r.J(0,z)||!r.v(0,r).m(0,t).aL(0,v,z).q(0,w))
q=this.jt(z,r,y,u)
p=q[0]
o=q[1]
if(o.v(0,o).A(0,z).q(0,t))o=(o.bg(0)?o.j(0,z):o).n(0,1)
if(o.J(0,z))H.x(P.N("Value x must be smaller than q"))
return new E.af(z,o)} while(p.q(0,Z.by())||p.q(0,w))
return},
jt:function(a,b,c,d){var z,y,x,w,v,u,t,s,r
z=d.aR(0)
y=d.ghg()
x=Z.by()
w=Z.co()
v=Z.by()
u=Z.by()
if(typeof z!="number")return z.m()
t=z-1
s=y+1
r=b
for(;t>=s;--t){v=v.v(0,u).A(0,a)
if(d.bg(t)){u=v.v(0,c).A(0,a)
x=x.v(0,r).A(0,a)
w=r.v(0,w).m(0,b.v(0,v)).A(0,a)
r=r.v(0,r).m(0,u.X(0,1)).A(0,a)\}else{x=x.v(0,w).m(0,v).A(0,a)
w=w.v(0,w).m(0,v.X(0,1)).A(0,a)
u=v}v=v.v(0,u).A(0,a)
u=v.v(0,c).A(0,a)
x=x.v(0,w).m(0,v).A(0,a)
w=r.v(0,w).m(0,b.v(0,v)).A(0,a)
v=v.v(0,u).A(0,a)
for(t=1;t<y;++t){x=x.v(0,w).A(0,a)
w=w.v(0,w).m(0,v.X(0,1)).A(0,a)
v=v.v(0,v).A(0,a)\}return[x,w]}
q:function(a,b){if(b==null)return!1
if(b instanceof E.af)return this.a.q(0,b.a)&this.b.q(0,b.b)
return!1},
"^":"dE;a,b,c,d,e,f",

hN:function(a){ var z,y,x,w,v,u
  z=this.b
  if(z==null&&this.c==null) return new Uint8Array(H.b5([1]))
  y=z.a.aR(0)
  if(typeof y!="number") return y.j()
  x=C.d.a0(y+7,8)
  w=E.k8(z.b,x)
  v=E.k8(this.c,b,x)
  z=w.length
  y=H.a6(z+v.length+1)
  u=new Uint8Array(y)
  if(0>y) return H.a(u,0)
  u[0]=4
  C.h.bk(u,1,w)
  C.h.bk(u,z+1,v)
  return u},

j:function(a,b){ var z,y,x,w,v,u,t,s
  z=this.b
  if(z==null&&this.c==null) return b
  if(b.ghe()) return this.eK()
  w=this.c
  v=b.c.m(0,w).cB(0,y.m(0,z))
  u=v.a
  t=v.b.aL(0,Z.co(),u)
  if(t(J(0,u))H.x(P.N("Value x must be smaller than q"))
  s=new E.af(u,t).m(0,z).m(0,y)
  return E.c1(this.a,s,v.v(0,x.m(z,s)).m(0,y),this.d)},

eK:function(){ var z,y,x,w,v,u,t,s,r,q
  z=this.b
  if(y.b.q(0,0)) return this.eK()
  x=this.a
  w=Z.co()
  v=x.c
  u=new E.af(v,w)
  if(w.J(0,v))H.x(P.N("Value x must be smaller than q"))
  w=Z.I()
  if(w.J(0,v))H.x(P.N("Value x must be smaller than q"))
  t=z.a
  s=z.b.aL(0,Z.co(),t)
  if(s(J(0,t))H.x(P.N("Value x must be smaller than q"))
  r=new E.af(t,s).v(0,new E.af(v,w)).j(0,x.a).cB(0,y.v(0,u))
w=r.a
v=r.aL(0,Z.co(),w)
if(v.J(0,w))H.x(P.N("Value x must be smaller than q"))
q=new E.af(w,v).m(0,z,v(0,u))
return E.c1(x,q,r.v(0,z,m(0,q)),m(0,y),this.d)},
m:function(a,b){ var z,y,x,w
if(b.ghe())return this
z=b.a
y=b.b
x=b.c
w=x.a
x=x.b.av(0).A(0,w)
if(x.J(0,w))H.x(P.N("Value x must be smaller than q"))
return this.j(0,E.c1(z,y,new E.af(w,x),b.d))},
aw:function(a){ var z,y
z=this.c
y=z.a
z=z.b.av(0).A(0,y)
if(z.J(0,y))H.x(P.N("Value x must be smaller than q"))
return E.c1(this.a,this.b,new E.af(y,z),this.d)},
iD:function(a,b,c,d){var z=b==null
if(!(!z&&c==null))z=z&&c!=null
else z=!0
if(z)throw H.b(P.N("Exactly one of the field elements is null")),
C:{
c1:function(a,b,c,d){ var z=new E.cT(a,b,c,d,E.uT(),null)
z.iD(a,b,c,d)
return z} },
hO:"^":nD;c,d,a,b",
gO6:function(){return this.d},
q:function(a,b){if(b==null)return!1
if(b instanceof E.hO)return this.c.q(0,b.c)&&J.n(this.a,b.a)&&J.n(this.b,b.b)
return!1},
gal:function(a){return(J.ao(this.a)^J.ao(this.b)^H.aM(this.c)>>>0)],["^","","",S,"","",nJ:"^":"d;a,a,b",
eo:function(a){ var z
this.b=a.b
z=a.a
this.a=z.gK()},
hK:function(){ var z,y,x,w,v
z=this.a.e
y=z.aR(0)
do x=this.b.hi(y)
while(x.q(0,Z.IK())||x.J(0,z))
w=this.a.d.v(0,x)
v=this.a
return H.f(new S.lu(new Q.dG(w,v),new Q.dF(x,v)),[null,null]])},["^","","",Z,"",nK:"^":"pg;b,a",
gkL:function(){return
return J.n(this.a,b.gdP())&J.n(this.b,b.b)
,
:
function(a,b){
var z
if(J.E(this.a,b.gdP()))z=J.n(this.a,b.a)&J.E(this.b,b.b)
else z=0
return z
},
:
function(a,b){
return this.u(0,b)||this.q(0,b)
},
:
function(a,b){
var z
if(!J.E(this.a,b.gdP()))z=J.n(this.a,b.a)&&J.E(this.b,b.b)
else z=0
return z
},
:
function(a,b){
return this.B(0,b)||this.q(0,b)
},
:
function(a,b){
var z
if(!J.T(this.a,b.gdP()))z=J.n(this.a,b.a)&&J.T(this.b,b.b)
else z=!0
return z
},
:
function(a,b){
return this.c2(a,b,null)
},
c3:function(a){
var z,y,x
z=J.p(this.b,(a&4294967295)>>>0)
y=J.o(z)
x=y.l(z,4294967295)
this.b=x
if(!y.q(z,x)){
y=J.p(this.a,1)
this.a=y
this.a=J.c(y,4294967295)
}
:
function(a){
var z,y
z=new P.aV(""")
for(y=8-z.length;y>0;--y)a.a+="0"
a.a+=z
}
:
function(a,b,c){
if(b instanceof R.d5){
this.a=b.a
this.b=b.b
}
else{
this.a=0
this.b=0
}
}
:
function(a,b,c){
if(b instanceof R.d5){
this.a=b.a
this.b=b.b
}
else{
this.a=0
this.b=0
}
}
k:function(a,b,c){this.a.k(0,b,c)},
D:function(a,b){return this.a.D(0,b)},
O:function(a,b){this.a.O(0,b)},
gG:function(a){var z=this.a
  return z.gG(z)},
gah:function(a){var z=this.a
  return z.gah(z)},
ga9:function(a){var z=this.a
  return z.ga9(z)},
ui:function(a){var z=this.a
  return z.ui(z)},
p:function(a){return this.a.p(0)},
$isU:1,$asU:null}
],
["",null,0,"N",null,null],
["^":null,o5:"
  ^":"ez;",
  gbi:function()\n  {return C.P}]
],
["",null,0,"R",null,null]
ue:function(a,b,c){var z,y,x,w,v,u,t,s,r
  z=H.a6((c-b)*2)
y=new Uint8Array(z)
  for(x=J.D(a),w=b,v=0,u=0;w<c;++w)
    t=x.h(a,w)
    if(typeof t!="number")return H.i(t)
    u=(u|t)>>>0
    s=v+1
    r=(t&240)>>>4
    r=r<10?r+48:r+97-10
    if(v>=z)return H.a(y,v)
    y[v]=r
    v=s+1
    r=t&15
    if(r<10&&r+48:r+97-10)
      if(s>=z)\n      return H.a(y,s)
      y[s]=r\n      if(u>0&&u<=255)\n      return P.c6(y,0,null)
      for(w=b;w<c;++w)
        t=x.h(a,w)
        if(typeof t!="number")return t.J()
        if(t<255)continue
        throw H.b(new P.ai("Invalid byte \n  0x0x++C.d.aG(C.b.c9(t),16)+","a,w))\n        throw H.b("unreachable"),
        o6:"
  ^":"cr;",
a4:function(a){\n  return R.ue(a,0,a.length)}}
],
["",null,0,"R",null,null]
\nq:function(a,b){if(b!=null)\n\nreturn!1
\nreturn b instanceof B.eN&&C.E.kQ(this.a,b.a)},
gal:function(a){\nreturn C.E(0,\n  this.a)},
p:function(a)\n  {\n  \n  return C.O.gbl(a4(this.a))}
],
["",null,0,"R",null,null]
\ngab6:function(a){\n  return this.a},
K:function(a,b){\n  this.a=b},
SasiU:function()\n  {\n  \n  return[B.eN]}
],
["",null,0,"A",null,null]
\na4:function(a){\n  return z.y,x,w,v}\n\nreturn R.nl(null)
\ny=new Uint32Array(H.a6(8))
\nx=new Uint32Array(H.a6(64))
```javascript
w=H.a6(0)
v=new Uint8Array(w)
w=new V.tw(y,x,z,C,j,new Uint32Array(H.a6(16)),0,new B.qZ(v,w),!1)
y[0]=1779033703
y[1]=3144134277
y[2]=1013904242
y[3]=2773480762
y[4]=1359893119
y[5]=2600822924
y[6]=528734635
y[7]=1541459225
w.K(0,a)
w.aJ(0)
return z.a}}})]|"","",G,{"^":"","",o4:{"^":"d;",
K:function(a,b){if(this.f)throw H.b(new P.I("Hash.add() called after close()."))
this.d=this.d+J.y(b)
this.e.aF(0,b)
this.f!}
,aj:function(a){if(this.f)return
this.f=!0
this.je()
this.a.a=new B.eN(this.iZ())},
iZ:function() {var z,y,x,w,v
if(this.b===$.$get$hS()){z=this.r.buffer
z.toString
return H.c5(z,0,null)}z=this.r
y=new Uint8Array(H.a6(z.byteLength))
x=y.buffer
x.toString
w=H.aU(x,0,null)
for(v=0;v<8;++v)w.setUint32(v*4,z[v],!1)
return y},
fl:function(){var z,y,x,w,v,u,t,s,r
z=this.e
y=z.a.buffer
y.toString
x=H.aU(y,0,null)
y=this.c
w=J.cK(z,b,y.byteLength)
if(typeof w==='number')return H.i(w)
v=y.length
u=C.f===this.b
for(t=0;w;++t){for(s=0;s<v;++s){r=y.byteLength
if(typeof r==='number')return H.i(r)
y[s]=x.getUint32(t*r+s*4,u)}this.m8(y)y=y.byteLength
if(typeof y==='number')return H.i(y)
```

Open Source Used In Edge and Fog Processing Module 1.6.0

357
```javascript
z.eC(z,0,w*y}),
je:function(){var z,y,x,w,v,u,t,s,r,q,p
z=this.e
z.k7(0,128)
y=this.d+9
x=this.c.byteLength
if(typeof x!="number")return H.i(x)
for(x=((y+x-1&-x)>>0)-y,w=0;w<x;++w){if(J.n(z.b,z.a.length)){v=z.b
u=z.bD(null)
C.h.a8(u,0,v,z.a)
z.a=u}v=z.a
u=z.b
z.b=J.p(u,1)
if(u>>>0!==u||u>=v.length)return H.a(v,u)
v[u]=0)x=this.d
if(x>2305843009213694e3)throw H.b(new P.w("Hashing is unsupported for messages with more than 2^64 bits."))
t=x*8
s=z.b
z.aF(0,new Uint8Array(H.a6(8)))
z=z.a.buffer
z.toString
r=H.aU(z,0,null)
q=C.b.a_(t,32)
p=(t&4294967295)>>0
z=this.b
x=C.f===z
v=J.am(s)
if(z===C.j){r.setUint32(s,q,x)
r.setUint32(v.j(s,4),p,x)}else{r.setUint32(s,p,x)
r.setUint32(v.j(s,4),q,x)}}],
```
C.af[x]+z[x]&4294967295)>>>0)&4294967295)>>>0)&4294967295)>>>0
k=r+i&4294967295)>>>0
j=+i+(((m)>>2|m<<30&4294967295)^(m)>>13|m<<19&4294967295)^(m)>>22|m<<10&4294967295)>>0)+(m&t&m&t&d>>0)&4294967295)>>>0)&4294967295)>>>0)
y[1]=(t+y[1]&4294967295)>>>0
y[2]=(s+y[2]&4294967295)>>>0
y[3]=(r+y[3]&4294967295)>>>0
y[4]=(q+y[4]&4294967295)>>>0
y[5]=(p+y[5]&4294967295)>>>0
y[6]=(o+y[6]&4294967295)>>>0
y[7]=(n+y[7]&4294967295)>>>0))]

return P.O(u.d3(),async$1,y)
case 3: case 1:return P.O(x,0,y,null)
case 2: return P.O(v,1,y))}})
return P.O(null,async$1,y,null))
d3:function(){var z=0,y=new P.b(),x,w=2,v,u=this,t,s,r,q,p
var $async$d1=P.b6(function(a,b){if(a===1){v=b
z=w}while(true)switch(z){case 0:if(u.cx){z=1
break}u.cx=0
if(u.e==null){t=H.f(new H.a0(0,null,null,null,null,0,0,[P.A,T.cZ])
s=H.f(new H.a0(0,null,null,null,null,0,0,[P.A,{func:1,ret:T.cZ,args:[P.A]}]))
s=new T.qh(null,null,t,null,null,null,s,null,new T.nA())
if(S.iT==null)$.iT=s
r=H.f(new H.a0(0,null,null,null,null,0,0,[func:1,args:[O.c8]],P.q])
r=new T.bG(s,1,1,0,1,1>null,"/r,null,1,null,P.a5(),P.aj(["Sis","node"]),P.a5())
s.e=r
t.k(0,"/r",r)
r=H.f(new H.a0(0,null,null,null,null,0,0,[func:1,args:[O.c8]],P.q])
q=P.a5()}
p=P.aj(["Sis","node"])
q=new T.iS(s,1,1,1,0,1,1,null,"/defs",r,null,1,null,q,p,P.a5())
p.k(0,"$hidden",!0)
s.f=q
t.k(0,"/defs",q)
r=H.f(new H.a0(0,null,null,null,null,0,0,[func:1,args:[O.c8]],P.q])
q=P.a5()}
p=P.aj(["Sis","node"])
q=new T.iS(s,1,1,1,0,1,1,null,"/sys",r,null,1,null,q,p,P.a5())
p.k(0,"$hidden",!0)
s.r=q
t.k(0,"/sys",q)
s.d2(null,u,c)
u.e=s
s.a=u.ghZ(u)u.e.eo(u.b)
z=3
return P.O(u.d3(),async$1,y)
case 3:case 1:return P.O(x,0,y,null)
case 2:return P.O(v,1,y))}})
z=1
break]

if(a==null) a = $.get$f3()

t = "dsa_key:" + H.k(window.location.pathname)
s = "dsa_key_lock:" + H.k(window.location.pathname)
r = "+Date.now() plus" + $.getScB().a.hj() + " plus" + $.getScB().a.hj()
u = J.t(a)
q = !u.$isqP
z = q ? 5 : 7
break

case 5: c = window.localStorage.getItem(t) != null
z = 6
break

case 7: z = 8
return P.O(u.el(a, t), async$b8, y)
case 8: case 6: z = c === 0 ? 3 : 4
break

z = q ? 9 : 11
break

case 9: window.localStorage.setItem(s, r)
z = 10
break

case 11: window.localStorage.setItem(s, r)
p = H.f(new P.R(0, $z, null), [null])
p.ai(null)
z = 12
return P.O(p, async$b8, y)
case 12: case 10: z = 13
return P.O(P.o0(C.S, null, null), async$b8, y)
case 13: z = q ? 14 : 16
break

case 14: o = window.localStorage.getItem(s)
n = window.localStorage.getItem(t)
z = 15
break

case 16: z = 17
return P.O(u.bj(a, s), async$b8, y)
case 17: o = c
z = 18
return P.O(u.bj(a, s), async$b8, y)
case 18: n = c
case 15: if (J.n(o, r)) [if (!u.$isf2) Y.k6(s, r)]
u = $.getScB().lg(n)
$s. e8 = u
x = u
z = 1
break]
s = null
case 4: z = 19
return P.O(K.fg(), async$b8, y)
case 19:p=c
$.e8=p
z=s!=null?20:21
break
case 20:x=q?22:24
break
case 22:q=p.eW()
window.localStorage.setItem(t,q)
window.localStorage.setItem(s,r)
z=23
break
case 24:q=p.eW()
window.localStorage.setItem(t,q)
q=H.f(new P.R(0,$.z,null),[null])
q.ai(null)
z=25
return P.O(q,$async$b8,y)
case 25:window.localStorage.setItem(s,r)
q=H.f(new P.R(0,$.z,null),[null])
q.ai(null)
z=26
return P.O(q,$async$b8,y)
case 26:case 23:if(!!u.$isf2)Y.k6(s,r)
case 21:x=$.e8
z=1
break
case 1:return P.O(x,0,y,null)
case 2:return P.O(v,1,y))}
return P.O(null,$async$b8,y,null}),
k6:function(a,b){var z=H.f(new W.b4(window,"storage"),!1),[H.J(C.Y,0)])
H.f(new W.aH(0,z.a,z.b,W.ai(new Y.uu(a,b)),!1),[H.J(z,0)].ao())},
na:{"^":"d;"},
f2:{"^"="na;"},
bj:function(a,b){var z=0,y=new P.b(),x,w=2,v
var $async$bj=P.b6(function(c,d){if(c===1){v=d
z=w})while(true)switch(z){case 0:x=window.localStorage.getItem(b)
z=1
break
case 1:return P.O(x,0,y,null)
case 2:return P.O(v,1,y))}}
return P.O(null,$async$bj,y,null}),
el:function(a,b){var z=0,y=new P.b(),x,w=2,v
var $async$el=P.b6(function(c,d){if(c===1){v=d
z=w})while(true)switch(z){case 0:x=window.localStorage.getItem(b)!=null
z=1
break
case 1:return P.O(x,0,y,null)
case 2:return P.O(v,1,y))}
return P.O(null,$asyncSel,y,null)), $isP:1,
$1:function(a){ var z=this.a
if(J.n(J.kW(a),z))window.localStorage.setItem(z,this.b)}
$lO: {"^":"cq:a,b,c,d,e,f,r,x,y,z,Q,ch,\text{cy},db,dx,dy,fr,fx",
glh:function(){ return this.b.a},
eM:function(a,b){ var z=this.Q
if(b>=3)return H.a(z,b)
$1[z]=a },
hC:function(a){ return this.eM(a,0)},
_b:function(a){ var z=0,y=new P.b_(),x,w=2,v,u=[],t=this,s,r,q,p,o,n,m,l,k,j,i,h
var $async$b_=P.b6(function(b,c){if(b===1){v=c
z=w}while(true)switch(z){case 0:if(t.fx){z=1
break}$uo=!0
m=t.c
s=H.k(t.cx)+"?dsId=\"+m
if(t.cy!=null)s=H.k(s)+H.k(t.cy)
r=P.d8(s,0,null)
Q.av().en("Connecting: \"+H.k(r))
w=4
l=t.r
q=P.aj(["publicKey",l.geA(),glO(),"isRequester",t.e!=null,"isResponder",t.f!=null,"formats",t.db,"version","1.1.2"," enableWebSocketCompression"],[0])
}return P.O(W.o8(s,"POST","application/json",null,null,null,$.get$bB().ej(q,1),!1),$async$b_,y)
case 7:p=c
k=J.l_(p)
o=$.get$bB().h4(k)
C.am.O(0,new Y.lP(t.o))
n=J.j(o,"tempKey")
h=t
z=8
return P.O(l.dq(n),$async$b_,y)
case 8:h.x=c
l=J.j(o,"wsUri")
if(typeof l==="string"){m=C.a.hq(H.k(r.df(J.j(o,"wsUri")))+"?dsId=\"+m,"http","ws")
t.ch=m
if(t.cy!=null)t.ch=m+H.k(t.cy)}t.z=J.dn(o,"version")
m=J.j(o,"format")
if(typeof m==="string")t.dx=J.j(o,"format")
t.ep(11)
$1[2]=1
$1[2]=1
w=2
z=6
break
case 4: w=3
i=v
H.Y(i)
Q.eT(t,gkv(t),t.dy*1000)
m=t.dy
if(m<60)t.dy=m+1
z=6
break
case 3:z=2
break
case 6:case 1:return P.O(x,0,y,null)
case 2:return P.O(v,1,y))
return P.O(null,Sasync$.b_.y,null),"$0","gkv",0,0,0],
ep:[function(a){var z,y
if(this.fx)return
z=Y.ri(W.rj(H.k(this.ch)+"&auth="+this.x.hc(this.Q[0])+"&format="+H.k(this.dx),null),this,this.z,new
Y.IQ(this),Q.nq(this.dx))
this.y=z
y=this.f
if(y!=null)y.sh1(0,z,c)
if(this.e!=null)this.y.e.aW(new Y.IR(this))
this.y.f.aW(new Y.IS(this,a))].function(){return this.ep(!0)}],
"mI","$1","$0","ghd",0,2,28,2],
lP:"^":"m:3;a,b",
$2:function(a,b){var z,y,x,z=I.a.Q
y=b
x=J.j(this.a,a)
if(y>>>0!==y||y>=3)return H.a(z,y)
z[y]=x },
IQ:{"^":"m:0;a",
$0:function(){var z=I.a.b
if(z.a.a===0)z.fY(0) },
IR:{"^":"m:1;a",
$1:function(a){var z,y
z=I.a
if(z.fx)return
y=z.e
y.sh1(0,a)
z=a
if(z.a.a===0)z.aj(0,y) },
IS:{"^":"m:1;a,b",
$1:function(a){var z,y
Q.av().en("Disconnected")
z=I.a
if(z.fx)return
if(z.y.cx){z.fr=1
if(a===!0)z.b_(!0)
else z.ep(!1)}else if(this.b===!0)if(a===!0)z.b_(!0)
else {Q.eT(z.ghd()),z.fr*1000)
y=z.fr
if(y<60)z.fr=y+1}else{z.fr=5
Q.eT(z.ghd(),5000));}
IT:{"^":"cq;a,b,c,d,e,f,r,x,y,z",
eM:function(a,b){}
hC:function(a){return this.eM(a,0)}},
rh:{"^":"m4;c,d,e,f,r,x,y,z,Q,ch,cx,dy,dy,a,b",
gex:function() {return this.f.a},
mK:{function(a){var z=this.ch
if(z>=3){this.aJ(0)
return}this.ch=z+1
if(this.Q){this.Q=!1
return}this.e3(null,null),"$1","glz",2,0,29],
eD:function(){if(!this.dx){this.dx=!0
Q.eS(this.gjW());}
}
mz:{function(a){Q.av().en("Connected")
this.cx=!0
if(this.y!=null)this.y.$0()
this.c.hz()
this.d.hz()
this.x.send("{}
this.eD(),"$1","glJ",2,0,9],
e3:function(a,b){var z=this.cy
if(z==null){z=P.a5()
this.cy=z}if(a!=null)z.k(0,a,b)
this.eD()},
mv:{function(a){var z,y,x,w,v,u,t,s,r,q,p,o
Q.av().bd("onData:")
this.ch=0
z=null
if(!J.t(J.ae(a)).$isew)try{q=H.aK(J.ae(a),"$isew")
q.toString
y=H.c5(q,0,null)
z=this.a.eg(y)
Q.av().bd(H.k(z))
q=J.j(z,"salt")
if(typeof q==="string")this.r.hC(J.j(z,"salt"))
x=!1
if(!J.t(J.j(z,"responses")).$ish&J.T(J.y(H.eg(J.j(z,"responses")),0))){x=!0
q=this.d.a
p=J.j(z,"responses")
if(q.b>=4)H.x(q.af())
q.a3(0,p)!if(!J.t(J.j(z,"requests")).$ish&J.T(J.y(H.eg(J.j(z,"requests")),0))){x=!0
q=this.c.a
p=J.j(z,"requests")
if(q.b>=4)H.x(q.af())
q.a3(0,p)!q=J.j(z,"ack")
if(typeof q==="number"&&Math.floor(q)==q)this.fN(J.j(z,"ack");}
if(x===!0){w=J.j(z,  "msg")
if(w!==null)this.e3("ack", w) }catch(o){q=H.Y(o)
  v=q
  u=H.ah(o)
  Q.av().ds("error in onData", v, u)
  this.aJ(0)
  return}else{q=J.ae(a)
  if(typeof q===''string")try{z=this.a.cb(J.ae(a))
  Q.av().bd(H.k(z))
  t=!1
  if(!J.t(J.j(z,  "responses")).$ish&&&J.T(J.y(H.eg(J.j(z,  "responses"))),0)){t=!0
  q=this.d.a
  p=J.j(z, "responses")
  if(q.b>=4)H.x(q.af())
  q.a3(0,p)if(!J.t(J.j(z,  "requests")).$ish&&&J.T(J.y(H.eg(J.j(z,  "requests"))),0)){t=!0
  q=this.c.a
  p=J.j(z, "requests")
  if(q.b>=4)H.x(q.af())
  q.a3(0,p)if(q!=J.j(z,  "ack")
  if(typeof q===''number''&&&Math.floor(q)===q)this.fN(J.j(z,  "ack"))
  if(t===!0){s=J.j(z, "msg")
  if(s!=null)this.e3("ack", s) }catch(o){q=H.Y(o)
  r=q
  Q.av().eX(r)
  this.aJ(0)
  return}}}
, "$1", "gjA", 2, 0, 31],
mA:[function(){var z,y,x,w,v,u,t,s,r,q
  this.dx=!1
  x=this.x
  if(x.readyState!==1)return
  Q.av().bd("browser sending")
  w=this.cy
  if(w!=null){this.cy=null
  v=!0}else{w=P.a5()
  v=!1}u=H.f([], [O.m7])
  t=Date.now()
  s=this.c.c0(t, this.db)
  if(s!=null){r=s.a
  if(r.length>0){w.k(0, "responses", r)
  v=!0}r=s.b
  if(r.length>0)C.c.aF(u, r) {s=this.d.c0(t, this.db)
  if(s!=null){r=s.a
  if(r.length>0){w.k(0, "requests", r)
  v=!0}r=s.b
  if(r.length>0)C.c.aF(u, r) {if(v){r=this.db
  if(r!==-1){if(u.length>0)this.b.aC(0, new O.hf(r, t, null, u))
  w.k(0, "msg", this.db)
  t=this.db
if(t<2147483647)this.db=t+1
else this.db=1}Q.av().bd("send: "+H.k(w))
z=this.a.ei(w)
t=z
r=H.eb(t,"$ish","[P.q].","$ash")
if(r){Q.ex(H.ftT(z,"$ish","[P.q].","$ash"))
try{x.send(z)}catch(q){x=H.Y(q)
y=x
Q.av().ib("Unable to send on socket","y")
this.aj(0){this.Q=}0 }, "$0", "$iW", $0, $2],
}jE:function(a){var z,y
if(!J.t(a).$isey)if(a.code===1006)this.dy=!0
Q.av().bd("socket disconnected")
z=this.d.a
if((z.b&4)===0)z.aJ(0)
z=this.d
y=z.r
if(y.a.a===0)y.aj(0,z)
z=this.c.a
if((z.b&4)===0)z.aJ(0)
z=this.c
y=z.r
if(y.a.a===0)y.aj(0,z)
z=this.f
if((z.a.a===0)z.aj(0,thi
dy)
z=this.z
if(z!=null)z.V(0),function(){return this.jE(null)"jD","$1","$0","gfm",0,2,19,0],
aJ:function(a){var z,y
z=this.x
y=z.readyState
if(y===1||y===0)z.close()
this.jD()}
iL:function(a,b,c,d,e){var z,y,x
if(e!=null)this.a=e
if(c!==!0)this.db=-1
z=this.x
z.binaryType="arraybuffer"
this.c=new O.iu(P.fj(null,null,null,null,1,P.h),[],this,null,1,!1,H.f(new P.aG(H.f(new P.R(0,S.z,null),[O.aS]),[O.aS]),H.f(new P.aG(H.f(new P.R(0,S.z,null),[O.aS]),[O.aS])))
this.d=new O.iu(P.fj(null,null,null,null,1,P.h),[],this,null,1!1,H.f(new P.aG(H.f(new P.R(0,S.z,null),[O.aS]),[O.aS]),H.f(new P.aG(H.f(new P.R(0,S.z,null),[O.aS]),[O.aS]))
y=H.f(new W.b4(z,"message",!1),[H.J(C.W,0)])
x=this.giA()
this.gfm()
H.f(new W.aH(0,y.a.y.b,W.ai(x),!1),[H.J(y,0)]).ao()
y=H.f(new W.b4(z,"close",!1),[H.J(C.U,0)])
H.f(new W.aH(0,y.a.y.b,W.ai(this.gfm(),!1),[H.J(y,0)]).ao()
z=H.f(new W.b4(z,"open",!1),[H.J(C.X,0)])
H.f(new W.aH(0,z.a,z.b,W.aI(this.gjJ()),!1),[H.J(z,0)].ao()
z=this.d
y=H.f(new P.R(0,$.z,null),[null])
y.aI(z)
this.e.aj(0,y)
this.z=P.qX(C.T,this.glz())
C:
ri:function(a,b,c,d,e){var z=new Y.rh(null,null,H.f(new P.aG(H.f(new P.R(0,$.z,null),[O.aS]),[O.aS]),H.f(new P.aG(H.f(new P.R(0,$.z,null),[P.b7]),[P.b7]),b,a,d,null!,1,0,!1,null,1,1,1,!,$.S.get$eQ(),P.dL(null,O.hf))
z.iL(a,b,c,d,e)
return z})})
""","",O,""",",m4:{""":"d;",
FN:function(a){var z,y,x,w,v
for(z=this.b,y=new P.jG(z,z.c,z.d,z.b,null),x=null;y.w();){w=y.e
if(w.gkf()===a){x=w
break}else{v=w.a
if(typeof a!="number")return H.i(a)
if(v<a)x=w}}if(x!=null){y=Date.now()}
do{w=z.eB()}
ke(a,y)
if(w===x)break}while(0)}]),pT:{""":"d;a,b"},hf:{""":"d;kf:a<,b,c,d;
ke:function(a,b){var z,y,x,w,v
for(z=this.d,y=z.length,x=this.b,v=0;y<z.length;y.length===y||(0,H.an)(z),++v)z[v].kg(x,w,b)}},aS:{""":"d;
},lA:{""":"d;"},cq:{""":"d;"},eM:{""":"d;a,b,c;d,e,cX:f>\r,x;
},dr:function(a){this.d=a
this.c.eD()},c0:function(a,b){var z=this.d
if(z!=null)return z.c0(a,b)
return},
gex:function(){return this.r.a},
ghl:function(){return this.x.a,
hz:function(){if(this.f)return
this.f=!0
this.x.aj(0,this))},m7:{""":"d;"},m5:{""":"d;"},
sh1:function(a,b){var z=this.b
if(z!=null){z.V(0)
this.b=null
this.jC(this.a)}this.a=b
this.b=glA().hf(this.glv())
this.a.gex(),aW(this.gjB())
if(J.kR(this.a)===!!0)this.ey()
else this.a.ghl().aW(new O.m6(this))},
J:[]function(a){var z
if(J.n(this.a,a))z=this.b
if(z!=null){z.V(0)
this.b=null
this.lix()}
this.a=null}}) "$1", "gjB", 2, 0, 33]
ey:"ik",function(){if(this.e)this.a.dr(this)},
fS:function(a){var z
this.c.push(a)
if(!this.e)z=this.a
if(z!=null)z.dr(this)
this.e=!0},
kM:function(a){var z
this.d.push(a)
if(!this.e){z=this.a
if(z!=null)z.dr(this)
this.e=!0},
c0:"ij",function(a,b){var z,y,x,w
this.e=!1
z=this.d
this.d=[]
for(y=z.length,x=0;x<z.length;z.length===y||(0,H.an)(z),++x)z[x].ig(a,b)
w=this.c
this.c=[]
return new O.pT(w,z)\},m6:{"^":"m:1;a",
S1:function(a){return this.a.ey()}},d0:{"^":"d;a,FT:b>,h0:c<b,H:d>",
hL:function(a,b){var z=this.b
if(z.D(0,b))return z.h(0,b)
z=this.a
if(z!=null&&J.h0(z).D(0,b)===!0)return J.h0(this.a).h(0,b)
return},
hM:function(a){var z=this.c
if(z.D(0,a))return z.h(0,a)
z=this.a
if(z!=null&&z.gh0().D(0,a))return this.a.gh0().h(0,a)
return},
fP:[{"cF",function(a,b){this.d.k(0,a,b)}},
mP:[{"iq",function(a){this.d.Y(0,this.eQ(a))
return a}}],
eQ:function(a){var z=this.d
if(z.D(0,a))return z.h(0,a)
z=this.a
if(z!=null&&J.dn(J.cM(z),a))return J.j(J.cM(this.a),a)
return},
bj:function(a,b){if(J.ab(b).a7(b,"$"))return this.hM(b)
if(C.a.a7(b,"@"))return this.hL(0,b)
return this.eQ(b)},
eU:function(){var z,y
z=P.f1(P.A,null)
y=this.c
if(y.D(0,"Sis")\}z.k(0,"Sis",y.h(0,"Sis"))
if(y.D(0,"Stype")\}z.k(0,"Stype",y.h(0,"Stype"))
if(y.D(0,"$name")\}z.k(0,"$name",y.h(0,"$name"))
if(y.D(0,"$invokable")\}z.k(0,"$invokable",y.h(0,"$invokable"))

Open Source Used In Edge and Fog Processing Module 1.6.0
369
if(y.D(0,"swritable"))z.k(0,"swritable",y.h(0,"swritable"))
if(y.D(0,"Sparams"))z.k(0,"Sparams",y.h(0,"Sparams"))
if(y.D(0,"Scolumns"))z.k(0,"Scolumns",y.h(0,"Scolumns"))
if(y.D(0,"Sresult"))z.k(0,"Sresult",y.h(0,"Sresult"))

return z}}},bE:{"^":"d;am:a>,b,I:c>d",
bc:function(){} var z,y,x
if(Jn(this.a,""))JaP(this.a.$get$iv())===!0||JaP(this.a,"/")===!0)this.d=!1
if(Jn(this.a,"/"))this.d=!0
this.c=""
this.be=""
return] if(J.eo(this.a,"/")){} z=this.a
y=J.D(z)
this.a=y.H(z,0,J.G(y.gi(z),1))x=J.h4(this.a,"/")
z=J.o(x)
if(z.u(x,0)){} else if(z.q(x,0)){} this.b=""
this.c=J.bV(this.a,1)
this.c=J.bV(this.a,1)
if(J.aP(this.b,"/")||J.aP(this.b,"/@"))this.d=!1]]},c8:{"^":"d;a6:b>,c,d,e,f,r,x,y,z,Q,ch,cx",
iK:function(a,b,c,d,e,f,g,h){var z,y
if(this.c==null)this.c=O.rb()
this.z=new P.bi(Date.now(),!1)
if(d!=null){z=J.D(d)
y=z.h(d,"count")}
else if(d==null)this.f=0
y=z.h(d,"status")
if(y==="number"&&Math.floor(y)===y)this.f=z.h(d,"count")
else this.f=0
y=z.h(d,"status")
if(y==="number")this.r=z.h(d,"sum")
y=z.h(d,"max")
if(y==="number")this.y=z.h(d,"min")
if(y==="number")z=z.h(d,"min")
this.b
if(y==="number")this.x=z.h(d,"min")}z=this.b
if(y==="number")this.r=this.b
if(Jn(z))this.r=this.b
z=this.y
if(Jn(z))this.y=this.b
z=this.x
if(Jn(z))this.x=this.b];
C:{
rb:function(){} var z=Date.now()
if(z===$jm)return $jn
$jm=z
z=new P.bi(z,1).hx()+H.k($$.get$jl())
$jn=z
return z},
jk:function(a,b,c,d,e,f,g,h){var z=new O.c8(-1,a,h,null,f,b,g,e,c,null,null,null,1)}
z.K(a,b,c,d,e,f,g,h)
return z}}].uH: {'"":m:0,".
$0:function(){var z,y,x,w,v
z=C.d.a0(new P.bi(Date.now(),!1).gm0().a,6e7)
if(z<0){z=-z
y="-"}else y="+
}
return v=(w<10?'0'+'':''+H.k(w)) ]];[^"",",L,"^":"",q1:{"":"":d:a,
},T:function(a){var z,y
z=this.a
y=z.h(0,a)
if(y===null){if(C.b.A(z.gi(z),1000)==0)Q.av().bd("Node Cache hit "+z.gi(z)+" nodes in size.")
if(I.ax(a,"defs")){y=new L.q0(a,11000,null,null,P.a5(),P.aj(["$is","node"]),P.a5())
}
y.ff()
}
}
,z.k(0,a,y)}else{y=new L.dT(a,11000,null,null,P.a5(),P.aj(["$is","node"]),P.a5())
}
y.ff()
}
}
}]}},return y }}],dT: {'":"":d0;e,f,I:r>,x,y,a,b,c,d",
}f:function(){var z=thi
if(z==="/")this.r="/"
else this.r=C.c.gM(z.split("/"))},
}V:function(a,b,c){var z,y,x,w,v
z=this.y
if(z==null){z=new L.cy(this,a,H.f(new H.a0(0,null,null),[P.bk,P.q]),-1,null,null)
}
y.x.hS()
this.y=z}z.toString
if(c>3)c=0
y=z.c
if(y.D(0,b))if(I.n(y.h(0,b),0)){y.k(0,b,c)
}
y.hB()}else{y.k(0,b,c)
}
y=d
w=y>-1?y>>-3:0
c
x=w>y
z.d=w
y=z.f
if(y!==null)b.$1(y)}if(x){y=z.b.x
z.d
}
y.toString
v=z.a.e
y.x.k(0,v,z)
y.y.k(0,z.e,z)
y.de()
y.z.K(0,v})},
k9:function(a,b){var z,y,x,w,v
z=this.y
if(z!==null){y=z.c
if(y.D(0,b)) x=y.Y(0,b)
if(y.gG(y)) y=z.b.x
y.toString
w=z.a.e
v=y.x
if(v.D(0,w)) y.Q.k(0,v.h(0,w).geY(),v.h(0,w))
y.de() else if(y.D(0,z.e))Q.av().eX("unexpected remoteSubscription in the requester, sid: "+H.k(z.e))} else if(J.n(x,z.d)&amp;&amp;z.d)&gt;1) z.hB()}),
i_:function(a,b){ var z,y,x,w,v,u
z=P.a5() z.aF(0,this.c) z.aF(0,this.b) for(y=this.d,x=y.ga9(y),x=x.qL(x);x.w();){w=x.gF() v=y.h(0,w) u=t(v) z.k(0,w,!!u.$isdT?u.aH(v):v.eU())) y=this.y y=y!=null&amp;&amp;y.f!=null if(y) { z.k(0,"?value",this.y.f.b) z.k(0,"?value_timestamp",this.y.f.c) return z} aH: function(a){ return this.i_([a,0]) } q0: {"^":dT:e,f,r,x,y,a,b,c,d"},dU: {"^":d:a,ht:b&lt;e,W:c&gt;,eN:d&lt;e,f", hr:function() {this.a.fS(this.c)}, fK: function(a,b) { var z,y,x,w,v,u,t z=J.D(b) y=z.h(b,"stream") if(typeof y==="string") this.f=z.h(b,"stream") x=!J.t(z.h(b,"updates"))?$is?z.h(b,"updates")?:null w=!J.t(z.h(b,"columns"))?$is?z.h(b,"columns")?:null v=!J.t(z.h(b,"meta"))?$is?z.h(b,"meta")?:null if(J.n(this.f,"closed")) this.a.f.Y(0,this.b) if(z.D(b,"error")===!0&amp;&amp;!!J.t(z.h(b,"error"))?$is?z.h(b,"error")?:null u=new O.eM(null,null,null,null,a)} u=this.a.y t=y.h(z,"type") if(typeof t==="string") u.a=y.h(z,"type") t=y.h(z,"msg") if(typeof t==="string") u.c=y.h(z,"msg") t=y.h(z,"path") if(typeof t==="string") u.d=y.h(z,"path") t=y.h(z,"phase") if(typeof t==="string") u.e=y.h(z,"phase") t=y.h(z,"detail") if(typeof t==="string") u.b=y.h(z,"detail") z=this.a.y iF(z.gbp())H.x(z.bB()) z.aE(u) else u=null this.d.hn(this.f,x,w,v,u), fz:function(a){ if(J.n(this.f,"closed")) {this.f="closed" this.d.hn("closed",null,null,null,a) } },xW: {"^":q3;"},q2: {"^":d:a,b,am:c"
V:function(a){var z,y
z=this.a
if(z!=null){y=this.b
y.r.eT(this.c).k9(y,z)
this.a=null}return}},qM:{"^":"d;a",
lw:function(){},
IB:function(){},
hn:function(a,b,c,d,e){},qN:{"^":"dU;r,x,y,z,Q,ch.cx,cy,db,a,b,c,d,e,f"},hS:function(){var z,y
do{y=z.r}
if(y<2147483647){++y
this.r=y}else{this.r=1
y=1}while(z.D(0,y))
return this.r},
hr:function(){this.de()},
fz:function(a){var z=this.x
if(z.gah(z))this.z.aF(0,z.ga9(z))
this.cx=0
this.cy=-1
this.db=!1},
fK:function(a,b){var z,y,x,w,v,u,t,s,r,q,p,o,n
z=J.j(b,"updates")
y=J.t(z)
if(!!y.$ish)for(y=y.gL(z),x=this.y,w=this.x;y.w();){v=y.gF()
u=J.t(v)
if(!!u.$isU){t=u.h(v,"ts")
if(typeof t==='string'&&!Math.floor(t)==t)q=u.h(v,"sid")
else continue}else{t=u.h(v,"sid")
if(typeof t==='number'&&!Math.floor(t)==t)q=u.h(v,"sid")
else continue}n=w.h(0,s)
else n=J.T(q,-1)?x.h(0,q):null
if(n!=null)n.kn(O.jk(p,1,0/0,o,0/0,null,0/0,r))}},
ig:function(a,b){var z,y,x,w,v,u,t,s,r
this.ch=!1}
if(b!==-1){++this.cx}
this.cy=b}z=this.a
if(z.a==null)return
y=[]
x=this.z
this.z=P.j4(null,null,null,P.A)
for(w=new P.jA(x,x.f8(),0,null),v=this.x;x.w();){u=w.d
if(v.D(0,u)){t=v.h(0,u)
s=P.aj(["path",u,"sid",t.keY()])
if(t.gkA()>0)s.k(0,"qos",t.d)
y.push(s})}if(y.length!==0)z.fD(P.aj(["method","subscribe","paths",y]),null)
w=this.Q
if(!w.gG(w))r=[]
if(!w.gG(w)){r=[]}
for(z.P.aj(["method","unsubscribe","sids",r]),null)
w.ag(0)}},
kg:function(a,b,c){if(a===this.cy)this.cx=0
else --this.cx}
de:function(){if(this.db)return
if(this.cx>16){this.db=!1
this.de()}}
qO:{^:"m:34;a,b",$2:function(a,b){var z=b.gcW()
if(z.gG(z)){this.b.push(a)
z=a}
z.x.Y(0,b.glp().e)
z.y.Y(0,b.e)
b.c.ag(0)}
cy:{^:"d;lp:a<,b,cW:c<,kA:d<,eY:e<,f",hB:function(){var z,y,x
for(z=this.c,z=z.gbh(z),z=z.gL(z),y=0;z.w();){x=z.gF()
if(typeof x!="number")return H.i(x)
y=(y|x)>>>0}if(y!==this.d){this.d=y
return!1}return!1},kn:function(a){var z,y,x
this.f=a
for(z=this.c,z=z.ga9(z),z=P.bm(z,!0,H.a7(z,"e")),y=z.length,x=0;x<z.length;z.length===y||(0,H.an)(z),++x)z[x].$1
hR:function(){do{var z=this.z
for(z=this.c,z=z.ga9(z),z=P.bm(z,!0,H.a7(z,"e")),y=z.length,x=0;x<z.length;z.length===y||(0,H.an)(z),++x)z[x].$1
for(z=J.aQ(a);z.w();){y=z.gF()}
x=J.t(y)
if(!x.$isU){w=x.h(y,"rid")}
if(typeof w==="number"&&Math.floor(w)===w&&this.f.D(0,x.h(y,"rid")))J.kF(this.f.h(0,x.h(y,"rid"),y))}
}];"$1","glv",2,0,35],
hR:function(){do{var z=this.z
if(z<2147483647){++z
this.z=z}else{this.z=1
z=1} while(this.f.D(0,z))
return this.z,
c0:function(a,b){return this.ij(a,b)},
fD:function(a,b){ var z,y
a.k(0,"rid",this.hR())
if(b!=null){z=this.z
y=new L.dU(this,z,a,b,!1,"initialize")
this.f.k(0,z,y)}else y=null
this.fS(a)
return y},
ii:function(a,b,c,d){this.r.eT(b).jV(this,c,d)
return new L.q2(c,this.b)},
dv:function(a,b,c){return this.ii(a,b,c,0)},
lx:[function(){if(!this.Q)return
var z=H.f(new H.a0(0,null,null,null,null,0),[P.q,L.dU])
z.k(0,0,this.x)
this.f.O(0,new L.q4(this,z))
this.f=z, "$0", "gex", 0, 0, 2],
ey:function(){if(this.Q)return
this.Q=!0
this.ik()}
this.f.O(0,new L.q5())},
IG:function(a){var z,y,x, w,v
z=H.f(new H.a0(0,null,null,null,null,0),[P.A,L.dU])
y=H.f(new H.a0(0,null,null,null,null,0),[P.q,L.cy])
x=P.i4(null,null,null,P.A)
w=H.f(new H.a0(0,null,null,null,null,0),[P.q,L.cy])
v=H.f(new H.a0(0,null,null,null,0),[P.q,L.cy])
v=new L.qM(null)
w=new L.qN(0,z,y,x,w,v,1,0,-1,1,0,0,1,0,"initialize")
v.a=w
this.x=w
this.f.k(0,0,w)},
C:{
iM:function(a){var z,y,x
z=H.f(new H.a0(0,null,null,null,null,0),[P.q,L.dU])
y=P.iY(null,null,1,O.eM)
x=new L.q1(H.f(new H.a0(0,null,null,null,0),[P.A,L.iM]))
y=new L.d6(z,x,1,0,0,1,0,null,0,H.f([],[],[].11))
y.iG(a)
return y} ]},q4:{ "^": "m:3:a,b", $2:function(a,b){ if(J.ci(b.ght(),this.a.z)&&!b.geN().SiswO)b.fz($.$get$hz()) else this.b.k(0,b.ght(),b)
b.geN().lw() },q5:{ "^": "m:3", $2:function(a,b){b.geN().lw() b.hr() } } ], "^", "^", "T", "^", "$", "pK", { "^": "pI", }.ij: { "^": "cZ", },
bT:function(a,b){var z,y
z={}
if(this.z){this.c.ag(0)
this.b.ag(0)
this.d.ag(0)}
z.a=null
y=this.f
if(J.n(y,"/"))z.a="/"
else z.a=H.k(y)+"/"
J.dp(b,new T.pu(z,this))
this.z=!0},
hA:function(a){var z,y
z=this.gaK()
y=z.a
if(y.b>=4)H.x(y.af())
y.a3(0,a)
z.b.a=a}].pu:{"^":"m:14;a,b",
$2:function(a,b){var z,y,x
if(J.ab(a).a7(a,"$"))this.b.c.k(0,a,b)
else if(C.a.a7(a,"@"))this.b.b.k(0,a,b)
else if(!J.t(b).$isU){z=this.b
y=z.Q.eR(H.k(this.a.a)+a,+1)}
x=J.t(y)
if(!x.$isij)x.bT(y,b)
z.d.k(0,a,y))}],na:{"^":"d;"},cZ:{"^":"d0;cM:e@,am:f>,cW:r<",
gaK:function(){var z=this.e
if(z==null){z=Q.lN(new T.pv(this),new T.pw(this),null,!0,P.A)
this.e=z}return z},
hm:function(){},
lr:function(){},
gjl:function(){var z=this.e
z=z==null?null?z:(z.a.b&1)!==0
return z==null?!1:z},
dv:["io",function(a,b,c){this.r.k(0,b,c)
return new T.q6(b,this)}],
mR:["ip",function(a,b){var z=this.r
if(z.D(0,b))z.Y(0,b)}],
ga6:function(a){var z=this.x
if(z!==null)return z.b
return},
ma:function(a,b){var z,
this.y=0
if(a instanceof O.c8){this.x=a
this.r.O(0,new T.px(this))}else{z=this.x
if(z==null)J.n(z.b.a)||!1}{this.x=O.jk(a,1,0/0,null,0/0,null,0/0,null)
this.r.O(0,new T.py(this))}],
m9:function(a){return this.ma(a,!1)},
h:function(a,b){return this.hj(0,b)},
k:function(a,b,c){var z,y
if(J.ab(b).a7(b,"$"))this.c.k(0,b,c)
else if(C.a.a7(b,"@"))this.b.k(0,b,c)
else if(c instanceof O.d0){this.cF(b,c)
z=this.gaK()
y=z.a
if(y.b>=4)H.x(y.af())
y.a3(0,b)
z.b.a=b}
}
bT:function(a,b){}
}
$0:function(){}
}
$2:function(a,b){a.$1(this.a.x)]].py:{"^":"m:3;a",
$2:function(a,b){"a.$1(this.a.x)]]}.pJ:{"^":"d;
}
}
h:function(a,b){return this.ba(b)
}
ar:function(a)return this.eR("/",!1)]}.q7:{"^":"d;
}.wH:{"^":"q7;"}.q6:{"^":"d;a,b",
V:function(a){var z,y
z=this.a
if(z!=null){y=this.b
y.ip(y,z)
this.a=null]}},xX:{"^":"d;
}.qh:{"^":"pK;a,b,c,d,e,f,r,x,y",
dM:function(a,b){var z,y
z=this.c
if(z!=null){y=z.h(0,a)
if(b||y.gk6())return y}return},
ba:function(a){return this.dM(a,!1)
},eS:function(a,b,c){var z,y,x,w,v,u,t,s,r
z=this.dM(a,!0)
if(z!=null){if(b){y=new O.bE(a,null,null,!0)
y.bc()
if(J.n(y.c,"/")){x=this.ba(y.b)
if(x!=null&&!J.dn(J.cM(x),y.c)){x.fP(y.c,z)
w=x.gaK()
v=y.c
u=w.a
if(u.b>=4)H.x(u.af())
u.a3(0,v)
w.b.a=v
w=z.gaK()
v=w.a
if(v.b>=4)H.x(v.af())
v.a3(0,"$is")
w.b.a="$is"})}if(z instanceof T.bG)z.ch=!1}return z}if(b){t=new O.bE(a,null,null,!0)
y.bc()
if(J.n(y.c,"/")){x=this.ba(y.b)
if(x!=null&&!J.dn(J.cM(x),y.c)){x.fP(y.c,z)
w=x.gaK()
v=y.c
u=w.a
if(u.b>=4)H.x(u.af())
u.a3(0,v)
w.b.a=v
if(v.b>=4)H.x(v.af())
v.a3(0,"$is")
w.b.a="$is"})}if(z instanceof T.bG)z.ch=!1}return z}if(b){t=new O.bE(a,null,null,!0)
t.bc()
w=this.c
s=w.h(0,a)
v=="null
if(v)if(s instanceof T.bG)if(s.ch=!1)remove(z)if(b){t=new O.bE(a,null,null,!0)
t.bc()
w=this.c
s=w.h(0,a)
v=="null
if(v)if(s instanceof T.bG)if(s.ch=!1)remove(z)
else H.x(P.b1("Node at "+H.k(a)+" already exists.")
if(v){v=H.f(new H.a0(0,null,null,null,null,0),[{func:1,args:[O.c8]},P.q])
z=new T.bG(this,!1,!1,!0,!1,null,a,v,null,!1,null,P.a5(),P.aj(['$is','"node"']).P.a5())
}else z=s
w.k(0,a,z)
c
w=t.b
r=r==""?this.ba(w):null
if(r!=null){J.K(J.cM(r),t.c,z)
r.ls(t.c,z)
w=t.c
v=r.gaK()
u=v.a
if(u.b>=4)H.x(u.af())
u.a3(0,w)
v.b=a=w
return z}
else{w=H.f(new H.a0(0,null,null,null,null,null,0),[{func:1,args:[O.c8]},P.q])
z=new T.bG(this,!1,!1,!0,!1,null,a,w,null,!1,null,P.a5(),P.aj(['$is','"node"']).P.a5())
}z.ch=!0
this.c.k(0,a,z)
return z}
}

eR:function(a,b){return this.eS(a,b,0)},
d2:function(a,b){if(a!=null)this.e.bT(0,a)},
eo:function(a){return this.d2(a,null)},
aH:function(a){return this.e.aH(0)},
fQ:function(a,b){var z,y,x,w,v,u,t,s,r,q,p
z={}
x=J.t(a)
if(x.q(a,"/"))x.a7(a,"/")return
w=new O.bE(a,null,null,0)
v=J.l8(w)
z.a=null
x=v!=null
if(x){u=J.j(w,c,h,this)
z.a=u}
if(this.x.D(0,t))z.a=this.x.h(0,t).$1(a)
else z.a=this.eS(a,0,1)
if(y!=null){Q.av().bd("Found old node for "+H.k(a)+": Copying subscriptions.")
for(s=y.gcW(),s=s.gc9(s),s=s.gL(s);s.w();){r=s.gF()
J.lr(z.a,r,y.gcW().h(0,r))}z.a=z
if(s instanceof T.bG){try{s.scM(y.gcM())
z.a.gcM().c=new T.qi(z)
z.a.gcM().d=new T.qj(z)}catch(q){H.Y(q)}if(z.a.gjl())z.a.hm()}
}this.c.k(0,a,z.a)
J.l8(z.a,b)
z.a.lu()
if(x){x=w.c
v.cF(x,z.a)
s=v.gaK()
p=s.a
if(p.b>=4)H.x(p.af())
p.a3(0,x)
s.b.a=x
x=w.c
s=v.gaK()
p=s.a
if(p.b>=4)H.x(p.af())
p.a3(0,x)
s.b.a=x}z.a.hA("$is")
if(y!=null)y.hA("$is")
return z.a},
IT:function(a,b){ var z,y,x,w,v,u,t,r,q,p
z=[]
y=J.t(a)
if(y.q(a,"/"))"y.a7(a,"/"))return
x=this.ba(a)
if(x==null)return
z.a=a
if(!J.fo(a,"/"))\{w=a+"/"
z.a=w
y=w }else y=a
v=Q.kh(y,"/"
}y=this.c
y=y.ga9(y)
y=H.f(new H.fo(y,new T.qk(z,v)),\{H.a7(y,"e",0))
u=P.bm(y,0,H.a7(y,"e",0))
for(z=u.length,t=0;\<u.length\;u.length===z\;\{0,H.an(u),++t)\}this.hp(u[t])
s=new O.bE(a,null,null,0)
s.bc()
r=this.ba(s.b)
x.lD()
x.cx=!0
if(r!=null)\{J.if(J.cM(r),s.c)
r.lt(s.c,x)
z=s.c
y=r.gaK()
q=y.a
if(q.b>=4)H.x(q.af())
p=q.b
if((p&1)!=0)q.aE(z)
else if((p&3)==0)q.dll().K(0,H.f(new P.cC(z,null),\{H.J(q,0]))
y.b.a=z }z=x.r
if(z.gG(z))\{z=x.e
z=z==null?z:(z.a.b&1)!=0
z=(z==null?!1?z)!==!0 else z=!1
if(z)\}this.c.Y(0,a)
else x.ch=!0,}
null
cq:function(a){this.Q.hp(this.f)},
fP:function(a,b){ var z,y
this.cF(a,b)
z=this.gaK()
y=z.a
if(y.b>=4)H.x(y.af())
y.a3(0,a)
z.b.a=a},
h:function(a,b){return this.bj(0,b)},
k:function(a,b,c){ var z,y,x
if(J.ab(b).a7(b,"$")||C.a.a7(b,"@"))if(C.a.a7(b,"$"))this.c.k(0,b,c)
else this.b.bk(0,b,c)
elif(c==null){b=this.iq(b)
if(b!=null){z=this.gaK()}
y=z.a
if(y.b>=4)H.x(y.af())
y.a3(0,b)
z.b.a=b}return b} else if(!!!J.l(c).SisU){z=new O.bE(this.f,null,null,!0)
z.bc()
y=J.eo(z.a,"/")
z=z.a
if(y) {y=J.D(z)
z=H.z(0,J.G(y.gi(z),l))} z=J.p(z,"/")
z=new O.bE(J.p(z,C.a.a7(b,"/"))?C.a.ac(b,1):b),null,null,!0)
z.bc()
x=z.a
return this.Q.fQ(x,c)} else {this.cF(b,c)
z=this.gaK()
y=z.a
if(y.b>=4)H.x(y.af())
y.a3(0,b)
z.b.a=b
return c}} },qm:{"^":"m:14;a,b","$2: function(a,b){if(J.ax(a,"?"))if(a===""?value")this.b.m9(b) else if(C.a.a7(b,"$"))this.c.k(0,a,b)
else if(!J.l(b).SisU)this.b.Q.fQ(H.k(this.a,a)+a,b) },qo:{"^":"m:3;a,",
$2: function(a,b){[this.a.k(0,a,b)] },qp:{"^":"m:38;a,",
$2: function(a,b){[var z=J.t(b)
if(!J.SisbG&&!0)this.a.k(0,a.z.aH(b)) ]},iS:{"^":"bG:Q.ch.cx.cy.z.e.f.g.x.y.a,b,c,d",eU:function() {var z,y
z=P.po(["$hidden",!0],P.A,null)
y=this.c
if(y.D(0,"Sis"))z.k(0,"Sis",y.h(0,"Sis"))
if(y.D(0,"Stype"))z.k(0,"Stype",y.h(0,"Stype"))
if(y.D(0,"Sname"))z.k(0,"Sname",y.h(0,"Sname"))
if(y.D(0,"$invokable"))z.k(0,"$invokable",y.h(0,"$invokable"))
if(y.D(0,"$writable"))z.k(0,"$writable",y.h(0,"$writable"))
\begin{verbatim}
z=G.bR()
w=G.bR().b
if(1>=y.length)return H.a(y,1)
return G.ff(new Q.dF(x,z),new Q.dG(w.eh(Q.cn(y[1])),G.bR()))}else return G.ff(new Q.dF(Z.bg(1,Q.cn(a)),G.bR()),null})}
\end{verbatim}
function(a){
  var z=0,
y=new P.b()

  var Sasync$=P.b6(function(b,c){
    if(b===1){
      v=c
      z=w
    }
    while(true){
      switch(z){
        case 0:
          t=u.b
          s=t.a.b.eh(Q.cn(a))
          G.bR()
          r=s.v(0,t.b)
          x=G.nG(t.u.c,r)
          z=1
          break
        case 1:
          return P.O(x,0,y,null)
        case 2:
          return P.O(v,1,y)
      }
    }
    return P.O(null,Sasync$y,null).
  })

  return P.O(null,$async$y,null),
}

if(a,b){
  var z,y,x,w,v,u,t

  z=this.c
  if(z==null){
    z=new Q.dG(G.bR().d.v(0,this.b.b),G.bR())
    this.c=z
  }

  y=new G.pV(z,null,null)
  x=z.b.hN(11)
  y.b=Q.bX(x,0,0)
  z=new R.d5(null,null)
  z.c2(0,0,null)
  w=new Uint8Array(H.a6(4))
  v=new Array(8)
  v.fixedSlength=Array
  v=H.f(v,[P.q])
  u=new Array(64)
  u.fixedSlength=Array
  t=new K.fh("SHA-256",32,z,w,null,C.j,8,v,H.f(u,[P.q]),null)
  t.dz(C.j,8,64,null)
  y.c=Q.bX(t.ez(x),0,0)
  this.a=y,
  C:
  ff:function(a,b){
    var z=new G.pS(null,a,b)
    z.iF(a,b)
    return z }
  },

  n8:{
    "^":"iP;a,b",
    cn:function(){
      return this.a.cn()
    },
    iB:function(a){
      var z,y,x,w

      z=new S.ls(null,null,null,null,null
      this.b=z
      z=new Y.II(z,null,null,null)
      z.b=new Uint8Array(H.a6(16))
      y=H.a6(16)
      z.c=new Uint8Array(y)
      z.d=y
      this.a=z
      z=new Uint8Array(H.b5([C.e.R(256),C.e.R(256),C.e.R(256),C.e.R(256),C.e.R(256),C.e.R(256),C.e.R(256),C.e.R(256),C.e.R(256),C.e.R(256),C.e.R(256),C.e.R(256),C.e.R(256),C.e.R(256),C.e.R(256),C.e.R(256),C.e.R(256)])
  }
y=Date.now()
x=P.tq(y)
w=H.f(new Uint8Array([x,R(256),x,R(256),x,R(256),x,R(256),x,R(256),x,R(256),x,R(256)])),new E.ph(z)),[S.dw])
this.a.i0(0,w)})},]["","K,{"":"","mb:function(a){var z,y,x,w,v,u
z=Q.ex(a)
$.getScB().toString
y=new R.d5(null,null)
y.c2(0,0,null)
x=new Uint8Array(H.a6(4))
w=new Array(8)
w.fixed$length=Array
w=H.f(w,[P.q])
v=new Array(64)
v.fixed$length=Array
u=new K.fh("SHA-256",32,y,x,null,C.j,8,w,H.f(v,[P.q]),null)
u.dz(C.j,8,64,null)
return Q.bX(u.ez(new Uint8Array(H.b5(z))),0,0)},
fg:function(){var z=0,y=new P.b_(),x,w=2,v
var $async$fg=P.b6(function(a,b){if(a===1){v=b
z=w}while(true)switch(z){case 0:x=$.$get$cB().dn()
z=1
break
case 1:return P.O(x,0,y,null)
case 2:return P.O(v,1,y)}})
return P.O(null,$async$fg,y,null)},
nE:{"":"","nc:undefined,"pU:{"":"","nz:""},
hc:function(a){return""},
bX:function(a,b,c){var z,y,x,w,v,u,t,s,r,q,p,o,n,m,l,k,i
z=a.length
if(z===0)return"
y=C.b.aV(z,3)
x=z-y
w=y>0?4:0
v=(z/3|0)*4+w+c
u=b>>2
w=u>0
if(w)v=C.b.aB(v-1,0<<2>>0)*(1+c)
t=new Array(v)
t.fixed$length=Array
s=H.f(t,[P.q])
for(t=s.length,r=0,q<c;++q,r=p){p=r+1
if(r>=t)return H.a(s,r)
s[r]=32}for(o=v-2,q=0,n=0,q<x;q=m){m=q+1

---

Open Source Used In Edge and Fog Processing Module 1.6.0

---

385
if(q>=z) return H.a(a,q)
l=C.b.A(a[q],256)
q=m+1
if(m>=z) return H.a(a,m)
k=C.b.A(a[m],256)
m=q+1
if(q>=z) return H.a(a,q)
j=l<<16&16777215|k<<8&16777215|C.b.A(a[q],256)
p=r+1
k=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-_",j>>>18)
if(r<0||r>=t) return H.a(s,r)
s[r]=k
r=p+1
k=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-_",j>>>12&63)
if(p<0||p>=t) return H.a(s,p)
s[p]=k
p=r+1
k=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-_",j>>>6&63)
if(r<0||r>=t) return H.a(s,r)
s[r]=k
r=p+1
k=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-_",j&63)
if(p<0||p>=t) return H.a(s,p)
s[p]=k
if(w){++n
l=n===u&&r<o}else l=!1
if(l){p=r+1
if(r<0||r>=t) return H.a(s,r)
s[r]=10
for(r=p,q=0;q<c;++q,r=p){p=r+1
if(r<0||r>=t) return H.a(s,r)
s[r]=32}n=0}}if(y===1){if(q>=z) return H.a(a,q)
j=C.b.A(a[q],256)
p=r+1
w=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-_",j>>>2)
if(r<0||r>=t) return H.a(s,r)
s[r]=w
w=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-_",j<<4&63)
if(p<0||p>=t) return H.a(s,p)
s[p]=w
return P.c6(C.c.U(s,0,o),0,null)}else if(y===2){if(q>=z) return H.a(a,q)
j=C.b.A(a[q],256)
w=q+1
if(w>=z) return H.a(a,w)
i=C.b.A(a[w],256)
p=r+1
w=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-_",j>>>2)
if(r<0||r>=t) return H.a(s,r)
$c0=!0, "$0", "vs", 0, 0, 2],
eS: function(a) { if(!$c0) { P.cz(O.fU())
$c0=!0 } $$.getSb().push(a),
xS: function(a) { var z, y, x, w
z= $$S$.getScC().h(0, a)
if(z!==null) return z
z=new Q.dY(a, H.f([],[P.ck]), null, null, null)
$.getSc().k(0, a, z)
y= $$.getSb0()
if(!!y.gG(y)) { y= $$$.getScb0()
if(y.b===0) H.x(new P.I("No such element"))
x=y.c } else x= null
for(y=x; x!==null; y=x) { x.a.dS(x, z, !0)
break } else { y=x.gb(x)
w= $$$.getSb0()
x=(y=x.null, w!==null) ? w & x.gb(x) ??= x ? x.gb(x): null) ? if(y) { y= $$$.getScb0()
y.dS(y.c, z, !1) } } if($c0) { P.cz(O.fU()) !$c0=!0 }
return z },
yS: function(a) { var z, y, x, w, v, u, t, s, r, q
w= $$$.getSb0()
if(!w.gG(w)) { w= $$$.getSb0()
if(w.b===0) H.x(new P.I("No such element"))
w= w.c.gbX()
if(typeof a!="number") return H.i(a)
w= w<=a } else w= !1
if(w) { w= $$$.getSb0()
if(w.b===0) H.x(new P.I("No such element"))
v= w.c
$.getScC().Y(0, v.gbX())
v.a.k8(v)
for(v= w, u= w.length; t= 0; t< w.length; w.length===u) { H.an(v), ++t} { z= w[t]
$.getScC().Y(0, z)
try { z.$0() } catch(s) { r= H.Y(s)
y=r
x= H.ah(s)
q="callback error: "+H.k(v)+"\n"+H.k(x)
H.ej(q) return v } return },
eT: function(a, b) { var z, y, x, w
z=C.l.kr((Date.now()+b)/50)
if($$.getScC().D(0, a)) { y= $$$.getScC().h(0, a)
if(y.gbX()) return
else C.c.Y(y.e, a) ; x= $$.eR
if(typeof x!="number") return H.i(x)
if(z<=x) { Q.eS(a)
return } w= Q.nx(z)
J.en(w, a)
$.getScC().k(0, a, w),
}$".c0=!0, "$0", "vs", 0, 0, 2],
eS: function(a) { if(!$c0) { P.cz(O.fU())
$c0=!0 } $$.getSb().push(a),
xS: function(a) { var z, y, x, w
z= $$S$.getScC().h(0, a)
if(z!==null) return z
z=new Q.dY(a, H.f([],[P.ck]), null, null, null)
$.getSc().k(0, a, z)
y= $$.getSb0()
if(!!y.gG(y)) { y= $$$.getScb0()
if(y.b===0) H.x(new P.I("No such element"))
x=y.c } else x= null
for(y=x; x!==null; y=x) { x.a.dS(x, z, !0)
break } else { y=x.gb(x)
w= $$$.getSb0()
x=(y=x.null, w!==null) ? w & x.gb(x) ??= x ? x.gb(x): null) ? if(y) { y= $$$.getScb0()
y.dS(y.c, z, !1) } } if($c0) { P.cz(O.fU()) !$c0=!0 }
return z },
yS: function(a) { var z, y, x, w, v, u, t, s, r, q
w= $$$.getSb0()
if(!w.gG(w)) { w= $$$.getSb0()
if(w.b===0) H.x(new P.I("No such element"))
w= w.c.gbX()
if(typeof a!="number") return H.i(a)
w= w<=a } else w= !1
if(w) { w= $$$.getSb0()
if(w.b===0) H.x(new P.I("No such element"))
v= w.c
$.getScC().Y(0, v.gbX())
v.a.k8(v)
for(v= w, u= w.length; t= 0; t< w.length; w.length===u) { H.an(v), ++t} { z= w[t]
$.getScC().Y(0, z)
try { z.$0() } catch(s) { r= H.Y(s)
y=r
x= H.ah(s)
q="callback error: "+H.k(v)+"\n"+H.k(x)
H.ej(q) return v } return },
$.c0=!1
$.hK=!0
w=$.get$dB()
$.dB=[]
for(v=w.length,u=0;u<w.length;w.length===v||(0,H.an)(w),++u){z=w[u]
try{z.$0()}catch(t){s=H.Y(t)
y=s
x=H.ah(t)
r="callback error; "+H.k(y)+"\n"+H.k(x)
H.ej(r)}]}v=Date.now()
$.eR=C.l.bJ(v/50)
for(Q.ny($.eR)!=null;);$.hK=!1
if($.hL){$.hL=!1
Q.nw()}s=$.get$b0()
if(!$.gG(s))if(!$.c0){s=$.eU
q=$.get$b0()
if(q.a===0)H.x(new P.I("No such element"))
if(s!==q.c.gbX()){s=$.get$b0()
if(s.a===0)H.x(new P.I("No such element"))
$.eU=s.c.gbX()
}$=$.dD
if(s===null&&&s.c===null)$s.V(0)
}$=$.eU
if(typeof s!="number")return s.v()
$.dD=P.cz(P.eV(0,0,0,0,0,0,50+1-v,0,0),Q.vs())}}else{v=($.dD
if(v===null){if(v.c===null)v.V(0)
$.dD=null}}} ]
"$0","[U",0,0,2],
kh:function(a,b){var z,y
z=C.a.t(b,0)
y=y.hE(y,new Q.uP(z))
return y.gi(y),
dh:function(a,b,c){a.gme().toString
return c},
av:function(){var z=(!$fJ
if(z===null)return z
$.dk=!0
z=N.dM("DSA")
$.fJ=z
z.glC().hf(new Q.va())
Q.vq("INFO")
return $.fJ},
vq:function(a){var z,y,x
a=J.h6(a).toUpperCae()
if(a==="DEBUG")a="ALL"
z=P.a5()
for(y=0;y<10;++y){x=C.ah[y]
z.k(0,x,a,x)x=z.h(0,a)
if(x!=null)J.ll(Q.av(),x),
kA:function(a){ var z,y,x,w,v,u
z=J.D(a)
y=z.gi(a)
x=H.a6(y)
w=new Uint8Array(x)
if(typeof y!="number")return H.i(y)
v=0
for(v<y;++v){u=z.t(a,v)
if(u>=128)return new Uint8Array(H.b5(C.k.a4(a)))
if(v>=x)return H.a(w,v)
w[v]=u}return w,
kJ:{"^": "m:0;",
$0:function(){var z,y,x
z=new Array(256)
z.fixed$length=Array
y=H.f(z,[P.q])
C.c.ak(y,0,256,-2)
for(x=0;x<64;++x){z=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-__",x)
if(z>=256)return H.a(y,z)
y[z]=x}y[43]=62
y[47]=63
y[13]=-1
y[10]=-1
y[32]=-1
y[61]=0
return y},
eO:{"^": "d;"},
s:{"^": "eO:b,c,d,e,f,r,x,a"},
h4:function(a){return P.bP(a,this.c.a)},
ej:function(a,b){ var z=this.b
return P.cD(a,z,b,z,a)},
egf:function(a){return this.cm(cb(C.m.a4(a))),
cb:function(a){ var z,y
z=this.f
if(z==null){z=new Q.nt()}
this.f=z}y=this.e
if(y==null){z=new P.cX(z)
this.e=z}else z=y
return P.bP(a,z,a)},
ei:function(a){ var z,y
z=this.r
if(z==null){z=new Q.nu()}
this.r=z}y=this.x
if(y==null){z=new P.cY(null,z)
this.x=z}else z=y
return P.cD(a,z,b,z.a)}
C:
  w7:[function(a){return, "$1"", "vr", 2, 0, 1}],
  nt: "\n": "m:3",
$2:function(a,b){var z,y,x,w
  z=b
  if(typeof z==='string' & & J.ax(b, "\x1bbytes:"))try{z=Q.cn(J.hV(b, 7))
y=z.buffer
  x=z.byteOffset
  z=H.aU(y, x, z)
return z}catch(w){H.Y(w)
  return}
return b},
nu: "\n": 'm:1",
$1:function(a){var z, y, x
  if(!J.t(a).$isbz){z=a.buffer
  y=a.byteOffset
  x=a.byteLength
  z.toString
  return"\x1bbytes:"+Q.bX(H.c5(z, y, x), 0, 0)}return},
nv: "\n": "eO;b,a",
eg: function(a){var z, y, x, w
  z=Q.ex(a)
y=this.b
  x=z.buffer
  if(y==null){y=new V.r2(null, z.byteOffset)
  x.toString
  y.a=H.aU(x, 0, null)
  this.b=y}else{y.toString
  x.toString
  y.a=H.aU(x, 0, null)
y.b=0
  y=this.b
  y.b=z.byteOffset
  w=y.di()
  if(!J.t(w).$isU)return w
  this.b.a=null
  return P.a5(),
  cb:function(a){return P.a5()},
ei:function(a){var z, y
  z=$.FL
  if(z===null){z=new V.qs(null)
z.a=new V.pG(H.f([], [P.bp]), null, 0, 0, 0, 0, 0, 2048)
$.FL=z}z.dd(a)
  z=H.f([], [P.bp])
z.r=0
  return
z.f=0
z.c=0
z.e=0
z.d=0
z.b=null
return y},{
ev:{"^":"d;a,b,c,d,e,f,r",
my:[function(a){var z
if(!this.f){z=this.c
if(z!=null)z.$0()
this.f=!0}this.e=!0}]
if(!this.r){this.r=!0}
this.e=!0}
if(this.$receiver,ev){
this.e=!1
this.f=!1}
"$0","gjI",2,0,0,0,0,2],
K:function(a,b){var z=this.a
if(z.b>4)H.x(z.af())
}
"
z.a3(0,b)
this.b.a=b],
iz:function(a,b,c,d,e){var z,y,x,w,v
z=P.fj(null,null,null,null,d,e)
this.a=z
z=H.f(new P.e1(z),[H.J(z,0)])
y=this.gjI()
x=H.f(new P.e1(z),[H.J(z,0)])
v=H.a7(z,"aB",0)
v.toString
v=H.f(new P.rq(z,y,x,v,null,null),[w])
v.e=H.f(new P.e1(z),[H.J(z,0)])
this.b.a=H.f(new P.e1(z),[null])
this.c=a
this.d=b],
C:{
IN:function(a,b,c,d,e){var z=H.f(new P.ev(null,null,null,null,[],[]),[e])
z.iz(a,b,c,d,e)
return z}},{
IX:{"^":"aB:a,b,c",
al:function(a,b,c,d){var z=this.c
if(z!=null)z.$1(a)
return this.b.al(a,b,c,d)},{
bS:function(a,b,c){return this.al(a,0,b,c)},{
dY:{"^":"pq;bX:d<,e,a,b,c",
K:function(a,b){var z=this.e
return z}}}},
if(!C.c.aa(z,b))z.push(b)}},
up:{"^":"m:1;a",
$1:function(a){return this.a===a}
},
va:{"^":"m:1;",
$1:function(a){var z,y,x,w,v,u,t,s,r,q,p,o,n,m,l,k
z=I.L(a)
y=J.dq(z.gab(a),"un")
x=Q.dh(a,"dsa.logger.inline_errors",!0)
w=Q.dh(a,"dsa.logger.sequence",!1)
v=x===!0
if(v){if(z.gap(a)!=null)C.c.aF(y,J.dq(J.aR(z.gap(a)),"\n"))
if(a.gaA()!=null){z=J.dq(J.aR(a.gaA()),"un")
z=H.f(new H.fo(z,new Q.v9()),[H.J(z,0)])
C.c.aF(y,P.bm(z,0,H.a7(z,"e",0))))}u=a.glj()
.a.y.toString
t=Q.dh(a,"dsa.logger.show_timestamps",!1)
if(Q.dh(a,"dsa.logger.show_name",!0)===!0)u=null
for(z=y.length,s=u!=null,r=a.a.a.q=t===!0,p=w===!0,o=a.f,n=a.e,m=0;m<y.length;y.length===z||z[0].H.ah(y),++m)
{l=y[m]
k=p["+o+;"]

if(q)k+="["+n.p(0)+"]"
k+="["+r+"""]
k=C.a.j((s?k+(""+u+""):k)+"",l)
if(Q.dh(a,"dsa.logger.print",!0)===!0)H.ej(k)if(!v){z=a.r
if(z!=null)P.cJ(z)
z=a.x
if(z!=null)P.cJ(z)}},
v9:{"^":"m:1;",
$1:function(a){return J.kV(a)}}],"",",N,{"^":",f4:{"^":"d1:a>,b,c,j0:d>,bH:e>,f","gh6:function(){var z,y,x
z=this.b
y=z===null][J.n(J.h3(z),"")
x=this.a
return y?x.z.gh6()+"j+x},
ghR:function(a){var z
if($.dk){z=this.c
if(z!=null)P.cJ(z)
}
$sdk{z=I.hK(z),
else{if(this.b!=null)throw H.b(new P.w('Please set "hierarchicalLoggingEnabled" to true if you want to change the level on a non-root logger.'))
$.jZ=b}}
,glC:function(){return this.fg()},
li:function(a,b,c,d,e){var z,y,x,w,v,u,t,s,r,q,p,o
x=I.h3(this)
if(J.a8(J.bw(a),J.bw(x))){"if(!I.t(b).b}$bk)b=b.$0()
x=b
if (typeof x !== "string") {w = b
b = J.aR(b)} else w = null
if (d === null) {x = $.vg
x = J.bw(a) === x.b} else x = !1
if (x) try {x = "autogenerated stack trace for " + H.k(a) + " " + H.k(b)
throw H.b(x)} catch (v) {x = H.Y(v)
z = x
y = H.ah(v)
d = y
if (c === null) c = z} e = $.$
x = b
u = this.gh6()
t = c
s = d
r = Date.now()
q = $.il
$.il = q + 1
p = new N.ik(a, x, w, u, new P.bi(r, !1), q, t, s, e)
if ($.dk) for (o = this; o !== null; ) {o.fq(p)
o = o.b} else $.$get$f5().fq(p)
eu: function (a, b, c, d) {return this.li(a, b, c, d, null)},
kR: function (a, b, c) {return this.eu(C.B, a, b, c)},
bd: function (a) {return this.kR(a, null, null)},
l7: function (a, b, c) {return this.eu(C.u, a, b, c)},
en: function (a) {return this.l7(a, null, null)},
ds: function (a, b, c) {return this.eu(C.D, a, b, c)},
ib: function (a, b) {return this.ds(a, b, null)},
eX: function (a) {return this.ds(a, null, null)},
fg: function () {if ($.dk) [this.b === null]} {var z = this.f
if (z === null) {z = P.iY(null, null, !0, N.ik)
this.f = z} z.toString
return H.f(new P.rA(z), [H.j(z, 0)])} else return $.$get$f5().fg(),
fq: function (a) {var z = this.f
if (z !== null) {if (!z.gbp()) H.x(z.bB())
z.aE(a)}},
C: {
  dM: function (a) {return $.$getSim().ho(0, a, new N.uI(a))},
  ul: {"^": "m:0:a",
  $0: function () {var z, y, x, w
  z = this.a
  if (C.a.a7(z, ",")) H.x(P.N("name shouldn't start with a ", ")
y = C.a.cm(z, ",")
if (y === -1) x = z = "\"?N.dM("\": null
else {x = N.dM(C.a.H(z, 0, y))
z = C.a.ac(z, y + 1) w = H.f(new H.a0(0, null, null, null, null, null, 0), [P.A, N.f4])
w = new N.f4(z, x, null, w, H.f(new P.r1(w), [null, null]), null)
if (x !== null) c = J.kO(x).k(0, z, w)
return w}}, b3: {"^": "d:1:a", a6: b > 
q: function (a, b) {if (b === null) return !1}
return b instanceof N.b3 & this.b === b.b],

u: function(a, b) {
    var z = J.bw(b)
    if (typeof z !== "string") return H.i(z)
    return this.b < z,

ae: function(a, b) {
    var z = J.bw(b)
    if (typeof z !== "number") return H.i(z)
    return this.b <= z,

B: function(a, b) {
    var z = J.bw(b)
    if (typeof z !== "number") return H.i(z)
    return this.b > z,

J: function(a, b) {
    var z = J.bw(b)
    if (typeof z !== "number") return H.i(z)
    return this.b >= z,

S: function(a, b) {
    var z = J.bw(b)
    if (typeof z !== "number") return H.i(z)
    return this.b - z,

g: function(a) {
    return this.b,

p: function(a) {

uv: function(a, b) {
    return new Uint8Array(H.b5(C.k.a4(a)))
}

ad: function() {

T: function(a) {

bZ: function(a) {

z = a.length

y = H.a6(z)

x = new Uint8Array(y)

for (w = 0; w < z; ++w) {
    v = C.a.t(a, w)
    if (v >= 128) return new Uint8Array(H.b5(C.k.a4(a)))
    if (w >= y) return H.a(x, w)
    x[w] = v
}

pG: {

ad: function() {

T: function(a) {

bZ: function(a) {

z = this.b

if (z === null) {
    z = new Uint8Array(this.x)
    this.b = z
} else if (z.byteLength === this.c) {
    y = this.f
    x = this.r
    w = this.a
    if (y !== x) {
        w.push(z);
        this.r += 1
    } else if (y >= w.length) return H.a(w, y)
    w[y] = z
    this.b = new Uint8Array(this.x)

this.c = 0
this.d = 0
}

T: function(a) {

bZ: function(a) {

z = this.b

y = this.d

if (y >>> 0 !== y || y >= z.length) return H.a(z, y)

z[y] = a
this.d = y + 1;

this.c += 1;

this.e}]

bZ: function(a) {

this.ad()
```javascript
z = this.b
y = z.byteLength
x = this.c
if (typeof y !== "number") return y.m()
w = J.o(a)
if (y - x < 2) {this.T(J.c(w.n(a, 8), 255))
this.T(w.l(a, 255))} else {y = this.d++
x = J.c(w.n(a, 8), 255)
if (y >>> 0 !== y || y >= z.length) return H.a(z, y)
z[y] = x
x = this.b
y = this.d++
w = w.l(a, 255)
if (y >>> 0 !== y || y >= x.length) return H.a(x, y)
x[y] = w
this.c += 2
this.e += 2
}
c_ = function(a) {
var z, y, x, w
this.ad()
z = this.b
y = z.byteLength
x = this.c
if (typeof y !== "number") return y.m()
w = J.o(a)
if (y - x < 4) {this.T(J.c(w.n(a, 24), 255))
this.T(J.c(w.n(a, 16), 255))
this.T(J.c(w.n(a, 8), 255))
this.T(w.l(a, 255))} else {y = this.d++
x = J.c(w.n(a, 24), 255)
if (y >>> 0 !== y || y >= z.length) return H.a(z, y)
z[y] = x
x = this.b
y = this.d++
z = J.c(w.n(a, 16), 255)
if (y >>> 0 !== y || y >= x.length) return H.a(x, y)
x[y] = z
z = this.b
y = this.d++
x = J.c(w.n(a, 8), 255)
if (y >>> 0 !== y || y >= z.length) return H.a(z, y)
z[y] = x
x = this.b
y = this.d++
w = w.l(a, 255)
if (y >>> 0 !== y || y >= x.length) return H.a(x, y)
x[y] = w
this.c += 4
this.e += 4
}
```

---

Open Source Used In Edge and Fog Processing Module 1.6.0

396
lQ:function(a){var z,y,x,w,v,u,t,s,r,q,p,o,n
z=this.e
if(z<=this.x){y=this.b.buffer
y.toString
return H.c5(y,0,z)}z=H.a6(z)
x=new Uint8Array(z)
for(y=this.r,w=this.a,v=w.length,u=0,t<y;t+=t){if(t>=v)return H.a(w,t)
s=w[t]
r=s.byteOffset
q=s.byteLength
p=s.length
while(!(0){if(typeof r!="number")return r.u()
if(typeof q!="number")return H.i(q)
if(!(r<q))break
o=u+1
if(r<0||r>=p)return H.a(s,r)
n=r
if(u<0||u>=z)return H.a(x,u)
x[u]=n;++r
u=o}}y=this.b
if(y!=null)for(w=this.c,t=0;t<w;++t,u=o){o=u+1
if(t>=y.length)return H.a(y,t)
v=y[t]
if(u<0||u>=z)return H.a(x,u)
x[u]=v}return x},
hI:function(a){var z,y,x,w,v,u,t,s,r,q,p,o
this.ad()
z=a.byteLength
y=this.b
x=y.byteLength
w=this.c
if(typeof x!="number")return x.m()
v=x-w
if(typeof z!="number")return H.i(z)
x=y&&C.h
w=this.d
if(v<z){x.a8(y,w,w+v,a)
this.c+=v
this.e+=v
u=z-v
for(y=a.length,x=this.x,t=v;t<z;){this.ad()}
w=this.c
if(w===0){s=C.d.ks(u,0,x)
w=this.b;(w&&C.h).P(w,0,s,a,t)
this.d=s
this.c=s
w=this.e+=s
t+=s}
u-=s}else{r=this.b
q=this.d
p=t+1
if(t>>>0!==t||t>=y)return H.a(a,t)
o=a[t]
if(q>>>0!==q||q>=r.length)return H.a(r,q)
f[q]=o
t+=1;++w
this.c+=t
t+=s}
else{x.a8(y,w,w+z,a)
this.d+=z
this.c+=z
this.e+=z}}},
qs:{"^":"d;a",
 dd:function(a){var z,y,x,w,v,u,t,s
z=J.t(a)
if(!!z.$ise&&!z.$ish)a=z.az(a)
if(a==null){z=this.a
z.ad()
y=z.b
x=z.d
if(x>>>0!==x||x>=y.length)return H.a(y,x)
y[x]=192
z.d=x+1;++z.c;++z.e}else{z=J.t(a)
if(z.q(a,!1)){z=this.a
z.ad()
y=z.b
x=z.d
if(x>>>0!==x||x>=y.length)return H.a(y,x)
y[x]=194
z.d=x+1;++z.c;++z.e}else if(z.q(a,!0)){z=this.a
z.ad()
y=z.b
x=z.d
if(x>>>0!==x||x>=y.length)return H.a(y,x)
y[x]=195
z.d=x+1;++z.c;++z.e}else if(typeof a="number"&&Math.floor(a)===a)this.lH(a)
else if(typeof a="string"){w=$.$get$fl().D(0,a)?$.$get$fl().h(0,a):V.uv(a)
z=w.length
if(z<32){y=this.a
y.ad()
x=y.b
v=y.d
if(v>>>0!==v||v>=x.length)return H.a(x,v)
x[v]=160+z
y.d=v+1;++y.c;++y.e}else if(z<256){y=this.a
y.ad()}
```javascript
x=y.b
v=y.d
if(v>>>0!==v||v>=x.length)return H.a(x,v)
x[v]=217
y.d=v+1;++y.c;++y.e
y=this.a
y.ad()
v=y.d
x=y.d
if(x>>>0!==x||x>=v.length)return H.a(v,x)
v[x]=z
y.d=x+1;++y.c;++y.e} else{y=this.a
if(z<65536){y.ad()}
x=y.b
v=y.d
if(v>>>0!==v||v>=x.length)return H.a(x,v)
x[v]=218
v=y.d
x=y.d
if(x>>>0!==x||x>=v.length)return H.a(v,x)
v[x]=z
y.d=x+1;++y.c;++y.e
this.a.bZ(z)} else{y.ad()}
x=y.b
v=y.d
if(v>>>0!==v||v>=x.length)return H.a(x,v)
x[v]=219
v=y.d
x=y.d
if(v>>>0!==v||v>=x.length)return H.a(x,v)
x[v]=203
z.d=x+1;++z.c;++z.e
u=new DataView(new ArrayBuffer(8))
u.setFloat64(0,a,!1)
this.cz(u) else if(!z.$ish) this.II(a)
else if(!z.$isU) this.II(a)
else if(typeof a==='number')(z=this.a
z.ad()}
y=z.b
x=z.d
if(x>>>0!==x||x>=y.length)return H.a(y,x)
y[x]=203
z.d=x+1;++z.c;++z.e
u=new DataView(new ArrayBuffer(8))
u.setFloat64(0,a,!1)
this.cz(u) else if(!z.$isbz) {z=a.buffer
y=a.byteOffset
x=a.byteLength
z.toString
H.au(z,y,x)
t=x===null?new Uint8Array(z,y):new Uint8Array(z,y,x)
s=t.byteLength
if(typeof s==='number') return s.ae()}
if(s<=255){z=this.a
z.ad()}
y=z.b
x=z.d
if(x>>>0!==x||x>=y.length)return H.a(y,x)
```
y[x]=196
z.d=x+1;++z.c;++z.e
z=this.a
z.ad()
x=z.b
y=z.d
if(y>>>0!==y||y>=x.length)return H.a(x,y)
x[y]=s
z.d=y+1;++z.c;++z.e
this.cz(t)}else{z=this.a
if(s<=65535){z.ad()}
y=z.b
x=z.d
if(x>>>0!==x||x>=y.length)return H.a(y,x)
y[x]=197
z.d=x+1;++z.c;++z.e
this.a.bZ(s)
this.cz(t)}else{z=this.a
if(s<=65535){z.ad()}
y=z.b
x=z.d
if(x>>>0!==x||x>=y.length)return H.a(y,x)
y[x]=198
z.d=x+1;++z.c;++z.e
this.a.c_(s)
this.cz(t)}]/}else throw H.b(P.b1("Failed to pack value: "+H.k(a))},
IH:function(a){var z
if(a>=0&&a<128){this.a.T(a)
return}if(a<0)if(a>=-32)this.a.T(224+a+32)
else if(a>-128){this.a.T(208)
this.a.T(a+256)}else if(a>-32768){this.a.T(209)
this.a.bZ(a+65536)}else{z=this.a
if(a>-2147483648){z.T(210)
this.a.c_(a+4294967296)}else{z.T(211)
this.fd(a)}else if(a<256){this.a.T(204)
this.a.T(a)}else if(a<65536){this.a.T(205)
this.a.bZ(a)}else{z=this.a
if(a<4294967296){z.T(206)
this.a.c_(a)}else{z.T(207)
this.fd(a)}}},
fd:function(a){var y
z=C.l.bJ(a/4294967296)
y=a&4294967295
this.a.T(C.b.a(z,24)&255)
this.a.T(C.b.a(z,16)&255)
this.a.T(C.b.a(z,8)&255)
this.a.T(z&255)
this.a.T(y>>>24&255)
this.a.T(y>>>16&255)
this.a.T(y>>>8&255)
this.a.T(y&255),
ll:function(a){ var z,y,x,w,v
z=J.D(a)
y=z.gi(a)
x=J.o(y)
if(x.u(y,16){x=this.a
if(typeof y!="number")return H.i(y)
x.T(144+y) else {x=x.u(y,256)
w=this.a
if(x){w.T(220)
this.a.bZ(y) else {w.T(221)
this.a.c_(y)} } if(typeof y!="number")return H.i(y)
v=0
for(;v<y;++v)this.dd(z.h(a,v))},
ll:function(a){ var z,y,x,w,v
z=J.D(a)
y=z.gi(a)
if(typeof y!="number")return y.u()
if(y<16){y=this.a
x=z.gi(a)
if(typeof x!="number")return H.i(x)
y.T(128+x) else {z.gi(a)
if(typeof y!="number")return y.u()
x=this.a
if(y<256){x.T(222)
this.a.bZ(z.gi(a)) else {x.T(223)
this.a.c_(z.gi(a)) } for(y=J.aQ(z.ga9(a));y.w();){w=y.gF()
this.dd(w)
this.dd(z.h(a,w))}}},
cz:function(a){ var z,y,x,w,v,u
z=J.t(a)
if(!!z.$isbp)this.a.hI(a)
else if(!!z.$isbz){z=this.a
y=a.buffer
x=a.byteOffset
w=a.byteLength
y.toString
z.hl(H.cS(y,x,w)) else if(!!z.$ish){z=this.a
x=a.length;
if(v<0; v<a.length; a.length == z(0,H.an(a), x++v) {if(v==z) return H.a(a,v)
u=a[v]
y=this.a
y.ad()
x=y.b
w=y.d
if(w>>>0!=w||w>=x.length) return H.a(x,w)
x[w]=u
y.d=w+1;++y.c;++y.e} else throw H.b(P.b1("I don't know how to write everything in "+z.p(a))))},
r2: {"a": "d;W:a*,b", 
  di:function() {var z,y,x,w,v,u,t,s 
    z=this.a 
    y=this.b 
    if(typeof y!="number")return y.j() 
    this.b=y+1 
    x=J.a2(z,y) 
    if(typeof x!="number")return x.J() 
    if(x>=224)return x-256 
    if(x<192)if(x<128)return x 
    else if(x<144)return this.dk(x-128) 
    else if(x<160)return this.dj(x-144) 
    else{z=x-160 
      y=J.ck(this.a) 
      w=this.b 
      y.toString 
      H.au(y,w,z) 
      v=C.m.a4(new Uint8Array(y,w,z)) 
      y=this.b 
      if(typeof y!="number")return y.j() 
      this.b=y+z 
      return v }switch(x){case 192:return 
      case 194:return!1 
      case 195:return!0 
      case 196:return this.eL(x) 
      case 197:return this.eL(x) 
      case 198:return this.eL(x) 
      case 207:return this.bY()*4294967296+this.bY() 
      case 206:return this.bY() 
      case 205:z=this.a 
      y=this.b 
      if(typeof y!="number")return y.j() 
      this.b=y+1 
      u=J.a2(z,y) 
      if(typeof u!="number")return u.X() 
      y=this.a 
      z=this.b 
      if(typeof z!="number")return z.j() 
      this.b=z+1 
      z=J.a2(y,z) 
      if(typeof z!="number")return H.i(z) 
      return(u<<8|z)>>0 
      case 204:z=this.a 
      y=this.b 
      if(typeof y!="number")return y.j() 
      this.b=y+1 
      return J.a2(z,y) 
      case 211:return this.m6() 
  }
}
case 210: return this.m5()
    case 209: return this.m4()
    case 208:
        z = this.a
        y = this.b
        if (typeof y !== "number") return y.j()
        this.b = y + 1
        t = J.a2(z, y)
        if (typeof t !== "number") return t.u()
        if (t < 128) z = t
        else z = t - 256
        return z
    case 217:
        z = this.a
        y = this.b
        if (typeof y !== "number") return y.j()
        this.b = y + 1
        y = J.a2(z, y)
        z = J.ck(this.a)
        w = this.b
        z.toString
        H.au(z, w, y)
        v = C.m.a4(y == null? new Uint8Array(z, w): new Uint8Array(z, w, y))
        z = this.b
        if (typeof z !== "number") return z.j()
        if (typeof y !== "number") return H.i(y)
        this.b = z + y
        return v
    case 218:
        z = this.a
        y = this.b
        if (typeof y !== "number") return y.j()
        this.b = y + 1
        u = J.a2(z, y)
        if (typeof u !== "number") return u.X()
        y = this.a
        z = this.b
        if (typeof z !== "number") return z.j()
        this.b = z + 1
        z = J.a2(y, z)
        if (typeof z !== "number") return H.i(z)
        u = (u << 8) | z >>> 0
        z = J.ck(this.a)
        y = this.b
        z.toString
        H.au(z, y, u)
        v = C.m.a4(new Uint8Array(z, y, u))
        z = this.b
        if (typeof z !== "number") return z.j()
        this.b = z + u
        return v
case 219: z = this.bY()
y = this.b
y.toString
H.au(y, w, z)
v = C.m.a4(new Uint8Array(y, w, z))
y = this.b
if (typeof y !== "number") return y.j()
this.b = y + z
return v

case 223: return this.dk(this.bY())
case 222: z = this.a
y = this.b
if (typeof y !== "number") return y.j()
this.b = y + 1
u = J.a2(z, y)
if (typeof u !== "number") return u.X()
y = this.a
z = this.b
if (typeof z !== "number") return z.j()
this.b = z + 1
z = J.a2(y, z)
if (typeof z !== "number") return H.i(z)
return this.dk((u << 8 | z) >>> 0)
case 128: z = this.a
y = this.b
if (typeof y !== "number") return y.j()
this.b = y + 1
return this.dk(J.a2(z, y))
case 221: return this.dj(this.bY())
case 220: z = this.a
y = this.b
if (typeof y !== "number") return y.j()
this.b = y + 1
u = J.a2(z, y)
if (typeof u !== "number") return u.X()
y = this.a
z = this.b
if (typeof z !== "number") return z.j()
this.b = z + 1
z = J.a2(y, z)
if (typeof z !== "number") return H.i(z)
return this.dk((u << 8 | z) >>> 0)
case 144: z = this.a
y = this.b
if (typeof y !== "number") return y.j()
this.b = y + 1
return this.dj(J.a2(z, y))
case 202: v = J.13(this.a, this.b)
  z = this.b
  if (typeof z !== "number") return z.j()
  this.b = z + 4
  return v

case 203: z = J.ck(this.a)
  y = this.b
  z.toString
  H.au(z, y, 8)
  s = new Uint8Array(H.b5(new Uint8Array(z, y, 8)))
  z = this.b
  if (typeof z !== "number") return z.j()
  this.b = z + 8
  z = s.buffer
  z.toString
  H.au(z, 0, null)
  return new DataView(z, 0).getFloat64(0, !1)}
   eL: function(a) {
      var z, y, x, w, v
      if (a === 196) { z = J.a2(this.a, this.b) } else if (a === 197) { z = J.l4(this.a, this.b) } else { if (a === 198) { z = J.l5(this.a, this.b) } else throw H.b(P.b1("Bad Binary Type")) } y = 4
      x = this.b
      if (typeof x !== "number") return x.j()
      this.b = x + y
      x = J.ck(this.a)
      w = this.b
      x.toString
      v = H.au(x, w, z)
      w = this.b
      if (typeof w !== "number") return w.j()
      if (typeof z !== "number") return H.i(z)
      this.b = w + z
      return v},
   bY: function() {
      var z, y, x, w
      for (z = 0, y = 0; y < 4; ++y) {
         x = this.a
         w = this.b
         if (typeof w !== "number") return w.j()
         this.b = w + 1
         w = J.a2(x, w)
         if (typeof w !== "number") return H.i(w)
         z = (z << 8 | w) >>> 0
      } return z},
   m6: function() {
      var z, y, x, w, v, u, t, s, r, q, p
      z = this.a
      y = this.b
      if (typeof y !== "number") return y.j()
      this.b = y + 1
      y = J.a2(z, y)
z = this.a
x = this.b
if (typeof x !== "number") return x.j()
this.b = x + 1
x = J.a2(z, x)
z = this.a
w = this.b
if (typeof w !== "number") return w.j()
this.b = w + 1
w = J.a2(z, w)
z = this.a
v = this.b
if (typeof v !== "number") return v.j()
this.b = v + 1
v = J.a2(z, v)
z = this.a
u = this.b
if (typeof u !== "number") return u.j()
this.b = u + 1
u = J.a2(z, u)
z = this.a
t = this.b
if (typeof t !== "number") return t.j()
this.b = t + 1
t = J.a2(z, t)
z = this.a
s = this.b
if (typeof s !== "number") return s.j()
this.b = s + 1
s = J.a2(z, s)
z = this.a
r = this.b
if (typeof r !== "number") return r.j()
this.b = r + 1
q = [y, x, w, v, u, t, s, J.a2(z, r)]
p = q[0]
if (typeof p !== "number") return p.l()
z = q[4]
y = q[3]
x = q[1]
w = q[2]
v = q[5]
u = q[6]
t = q[7]
if ((p & 128) !== 0){if (typeof x !== "number") return x.at()}
if (typeof w !== "number") return w.at()
if (typeof y !== "number") return y.at()
if (typeof z !== "number") return z.at()}
if (typeof v !== "number") return v.at()
if (typeof u !== "number") return u.at()
if (typeof t !== "number") return t.at()
return

(((p^255)>>>0)*72057594037927936+((x^255)>>>0)*281474976710656+((w^255)>>>0)*1099511627776+((y^2
255)>>>0)*4294967296+((z^255)>>>0)*16777216+((v^255)>>>0)*65536+((u^255)>>>0)*256+(((t^255)>>>0)+1)
})
else{

return x.v()

if (typeof w !== "number") return w.v() 
if (typeof y !== "number") return y.v() 
if (typeof z !== "number") return z.v() 
if (typeof v !== "number") return v.v() 
if (typeof u !== "number") return u.v() 
if (typeof t !== "number") return t.i(t)

return
p*72057594037927936+x*281474976710656+w*1099511627776+y*4294967296+z*16777216+v*65536+u*256+

m5:function(){
var z,y,x,w,v,u,t,s,r,q,p,o
z=this.a
y=this.b
if (typeof y !== "number") return y.j() 
this.b=y+1 
y=J.a2(z,y) 
z=this.a 
x=this.b
if (typeof x !== "number") return x.j() 
this.b=x+1 
x=J.a2(z,x) 
z=this.a 
w=this.b
if (typeof w !== "number") return w.j() 
this.b=w+1 
w=J.a2(z,w) 
z=this.a 
v=this.b
if (typeof v !== "number") return v.j() 
this.b=v+1 
u=[y,x,w,J.a2(z,v)] 
v=u[0]
if (typeof v !== "number") return v.l()
t=(v&64)==0 
for(s=0,r=1,q=3,p=1;q>=0;--q,p*=256){
o=u[q]
if (t){
if (typeof o !== "number") return o.at() 
o=(o^255)>>>0+r
r=o>>>8 
o&=255}
if (typeof o !== "number") return o.v() 
s+=o*p 
return t?-s:s}
m4:function(){
var z,y,x,w 
z=this.a
y=this.b
if(typeof y!=='number')return y.j()
this.b=y+1
y=J.a2(z,y)
if(typeof y!=='number')return y.v()
z=this.a
x=this.b
if(typeof x!=='number')return x.j()
this.b=x+1
x=J.a2(z,x)
if(typeof x!=='number')return H.i(x)
w=y*256+x
if(w>32767) return w-65536
return w},
dk:function(a){var z,y
z=P.a5()
if(typeof a!=='number')return H.i(a)
y=0
for(;y<a;++y)z.k(0,this.di(),this.di())
return z},
dj:function(a){var z,y,x
z=[]
C.c.si(z,a)
if(typeof a!=='number')return H.i(a)
y=0
for(;y<a;++y){x=this.di()
if(y>=z.length)return H.a(z,y)
z[y]=x}
return z}}],
^":",df: {^":",gi:function(a){return this.b},
h:function(a,b){var z
if(J.a8(b,this.b))throw H.b(P.a3(b,this,null,null,null))
z=this.a
if(b>>>0!==b||b>=z.length)return H.a(z,b)
return z[b]},
k:function(a,b,c){var z
if(J.a8(b,this.b))throw H.b(P.a3(b,this,null,null,null))
z=this.a
if(b>>>0!==b||b>=z.length)return H.a(z,b)
z[b]=c },
si:function(a,b){var z,y,x
z=Jo(b)
if(Jo(b,this.b))for(y=J.E(y,this.b);++y){z=this.a
if(y>>>0!==y||y>=z.length)return H.a(z,y)
z[y]=0} else if(z.B(b,this.a.length)){if(this.a.length===0){if(typeof
b!=='number')Math.floor(b)===b)H.x(P.N("Invalid length "+H.k(b)))
x=new Uint8Array(b)}else x=this.bD(b)
C.h.a8(x,0,this.b,this.a)
this.a=x}this.b=b},
k7: function(a, b) {
  var z, y
  if (length(a) > length(b)) {z = a;
    y = this.bD(null);
  } else {
    C.h.a8(y, 0, z, this.a);
    this.a = y;
    z = this.b;
    y = this.b;
    this.b = J.p(y, 1);
  }
  if (y.length > 0 || y.length > z.length) return H.a(z, y);
  z[y] = b;
}
K: function(a, b) {
  var z, y
  if (length(a) > length(b)) {z = a;
    y = this.bD(null);
    C.h.a8(y, 0, z, this.a);
    this.a = y;
    z = this.a;
    y = this.b;
    this.b = J.p(y, 1);
  }
  if (y.length > 0 || y.length > z.length) return H.a(z, y);
  z[y] = b;
}
ki: function(a, b, c, d) {
  this.iS(b, c, d);
}
aF: function(a, b) {
  return this.ki(a, b, 0, null);
}
iS: function(a, b, c) {
  var z, y, x, w, v, u, t
  z = J.t(a);
  y = !!z.$ish;
  if (y) {
    c = a.length;
    if (c == null) {
      z = this.b;
      if (y) {
        y = a.length;
        if (b > y || c > y) H.x(new P.I("Too few elements"));
      }
      x = c - b;
      y = J.am(z);
      w = y.j(z, x);
      this.j9(w);
      C.h.P(this.a, y.j(z, x), J.p(this.b, x), this.a, z);
      this.b = w;
    } else {
      for (z = z.gL(a), v = 0; z.w(); ) {
        u = z.gF();
        if (v >= b) {
          if (J.n(b, this.a.length)) {y = this.b;
            t = this.bD(null);
            C.h.a8(t, 0, y, this.a);
            this.a = t;
            y = this.a;
          } else {
            this.b = J.p(t, 1);
            if (t.length > 0) return H.a(y, t);
            y[t] = u + v;
            if (v < b) throw H.b(new P.I("Too few elements"));
          }
        }
      }
      j9: function(a) {
        var z
        if (J.ci(a, this.a.length)) return
        z = this.bD(a);
        C.h.a8(z, 0, this.b, this.a);
        this.a = z;
      }
    }
  }
}
```javascript
z = this.a.length * 2
if (a !== null) {
  if (typeof a !== "number")
    return H.i(a);
  y = z < a ? y = 1 : y = a;
} else if (z < 8) z = 8

return new Uint8Array(H.a6(z))}

P: function(a, b, c, d) {
  var z, y

  if (T(c, this.b)) throw H.b(P.S(c, 0, this.b, null, null));
  z = eb(d, "$isd$", [H.a7(this, "df", 0), "$asd$"], this.a);

  if (z) P(y, b, c, d.giY(), e);
  else P(y, b, c, d, e);
}

a8: function(a, b, c, d) {
  return P(a, b, c, d, 0));
}

$asdfs: function() {
  return [P.q]
}

$asbc: function() {
  return [P.q]
}

$ash: function() {
  return [P.q]
}

$ase: function() {
  return [P.q]
}

S0: function() {
  var z, y

  try {
    window.localStorage.setItem("_testIsSafariPrivateMode", "1")
  } catch (y) {
    H.Y(y); return !1
  }

  return !0
}

lV: function(a, b) {
  var z, y
  b ^= 4294967295
  for (z = a.length, y = 0; y < z; ++y) b = b >>> 8 ^ C.ag[b ^ a[y] & 255]
  return (b ^ 4294967295) >>> 0
}

lW: function(a, b) {
  var z = C.b.aG(A.lV(a, 0), 16)
  for (; z.length < 8;) z = "0" + z
  return z
}

mo: function() {
  $.eA = R.F("QaObP")
  $.mK = R.F("arAH")
  $.hi = R.F("LRgU")
  $.hn = R.F("\nwQW")
  $.mn = R.F("VpB")
  $.mE = R.F("awFkrw")
  $.mm = R.F("qBDr\n")
  $.hj = R.F("\"Slr")
  $.my = R.F("MuF--Lp\nCW")
  $.mB = R.F("fEarUb\n")
  $.mz = R.F("RNFPxq")
  $.eB = R.F("[m_vPp")
  $.eC = R.F("CQ\cwZdZ@VvU")
  $.mw = R.F("H--sFMNHj")
  $.dx = R.F("[Ykid|sL")
  $.nh = R.F("fFu]\xufEpKorG")
  $.mj = R.F("[]@xuPlwPRg")
  $.mF = R.F("[pG\SguVpx")
  $.mx = R.F("RSWXPl\XSik")
  $.mA = R.F("NHksFaRp_buByd")
```
$.cP=R.F("!")
$.eF=R.F("fwQKQtq")
$.mk=R.F("ynch|x=xP=liFM")
$.ml=R.F("Rfhclcc[s,Rg[&Mz.")
$.ho=R.F("3S]4vLa*lJWN~jeF")
$.mJ=R.F("&?m[Zal4\}j~{
\$GWh")
$.c_=R.F("\[@WuOag m[TXE"]
$.eD=R.F("At\'SICL a@x_OxZ; YE~xQW@odFHV@xnxnKMMydhUk")
$.mv=R.F("EHDBoFq5P|H}6cDcfq,vPNNzdKo]l^")
$.hk=R.F("@oGQz)sihE[\{tK(\H~sFMNHjxVlpwU3")
$.hl=R.F("RSvV XS Wu)~RplZlcUg^e)Da7")
$.mr=R.F("frV\{wiO pKornsF9")
$.ms=R.F("jxUk^Xzd")
$.mu=R.F("vBaXbEV XS Wu)~J$ k_TXI udEHV@Rbq")
$.mR=R.F("T@nPf@ct\SSlc3Rq]ydhZu[QRp}erLji_qnnAMCL NzLpcqGt_hTzL~")
$.mq=R.F("vBaXbEV XS Wu)~J$\\ERpmnmg[NHe@])")
$.mC=R.F("SxS SXJjKzJu[q'\{ViFOMPBLy8@BRg^OZQli_vBBoBGekHjPXqwjOG^-")
$.mi=R.F("RQgYDC\g@nxssLcbE~")
$.mD=R.F("i@VXzdFRDHyk\dt\QKPD\C\z")
$.mp=R.F("gwo^VvK[T]E[x?XlemrUu2p]jF")
$.mG=R.F("5Q'm:zsidZ!MuGyZOYu*IR")
$.mH=R.F("Ov[SLHMX^Nz'[dAJH^gw^e")
$.mI=R.F("zVXSN\n\nJ")
$.mG=R.F("t%99%9!1,2/=")
$.hm=R.F("~\~oQ@0})\{]["","U,"{"^":","oa:"{"^":","d;"})\{","","D,{'"",
cQ:functi(a,b,c,d,e,f,g){d=P.a5()
return $.eG.lh(a,b,c,d,e,f,g),
bA:{"^":"d;A,W:b*,e"},
7:{"^":"d;W:a*,b", iA:function(a,b){var z=this.a
if(z==null){n(z,"")this.a="error"},
C:{
daA:function(a,b){var z=new D.n7(a,b)
z.iA(a,b)
return z})})\{","","R,{'"","
MW:function(a,b){var z,y,x,w,v,u,t,s,r,q,p,o,n,m,l,k,j
z=C.b.aV(6,3)
y=6-z
x=8+(z>0?4:0)
w=b>>2
v=w>0
if(v)x+=C.b.aB(x-1,w<<2>>2)>>0<<1>>>0
u=new Array(x)
u.fixed$length=Array
t=H.f(u,[P.q])
for(u=st.length,s=x-2,r=0,q=0,p=0;q<y;Q=q=0||
if(q>6)return H.a(a,q)
n=C.b.A(a[q],256)
q=o+1
if(o>=6)return H.a(a,o)
    m=C.b.A(a[o],256)
o=q+1
if(q>=6)return H.a(a,q)
l=n<<16&16777215|m<<8&16777215|C.b.A(a[q],256)
k=r+1
m=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijk1mnopqrstuvwxyz0l23456789+/",&>>>18)
if(r>=u)return H.a(t,r)
t[r]=m
r=k+1
m=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijk1mnopqrstuvwxyz0l23456789+/",&>>>12&63)
if(k>=u)return H.a(t,k)
    t[k]=m
    k=r+1
m=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijk1mnopqrstuvwxyz0l23456789+/",&>>>6&63)
if(r>=u)return H.a(t,r)
    t[r]=m
    r=k+1
m=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijk1mnopqrstuvwxyz0l23456789+/",&&63)
if(k>=u)return H.a(t,k)
    t[k]=m
    k=r+1
m=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijk1mnopqrstuvwxyz0l23456789+/",&&63)
if(r>=u)return H.a(t,r)
    t[r]=m
    r=k+1
if(v){++p
    n=p===w&&r<s}else n=!1
if(n){k=r+1
    if(r>=u)return H.a(t,r)
    t[r]=13
    r=k+1
    if(k>=u)return H.a(t,k)
    t[k]=10
    p=0} }if(z===1){if(q>=6)return H.a(a,q)
l=C.b.A(a[q],256)
k=r+1
v=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijk1mnopqrstuvwxyz0l23456789+/",C.b.a_(l,2))
if(r>=u)return H.a(t,r)
    t[r]=v
    r=k+1
v=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijk1mnopqrstuvwxyz0l23456789+/",l<&4&63)
if(k>=u)return H.a(t,k)
    t[k]=v
    k=r+1
if(r>=u)return H.a(t,r)
    t[r]=61
if(k>=u)return H.a(t,k)
    t[k]=61 }else if(z===2){if(q>=6)return H.a(a,q)
l=C.b.A(a[q],256)
v=q+1
if(v>=6)return H.a(a,v)
j=C.b.A(a[v],256)
k+=1
v=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijk1mnopqrstuvwxyz0l23456789+/",C.b.a_((l,2)) &63)
if(k>=u)return H.a(t,k)
t[k]=v
k+=1
v=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijk1mnopqrstuvwxyz0l23456789+/",(l<<4|C.b.a_(j,4)) &63)
if(k>=u)return H.a(t,k)
t[k]=v
k+=1
v=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijk1mnopqrstuvwxyz0l23456789+/",j<<2&63)
if(k>=u)return H.a(t,k)
t[k]=v
if(k>=u)return H.a(t,k)
t[k]=61}return P.c6(t,0,null)}
hq:function(a){var z,y,x,w,v,u,t,s,r,q,p,o,n,m,l
z=J.D(a)
y=z.gi(a)
if(J.n(y,0)){z=new Array(0)
z.fixed$length=Array
return H.f(z,[P.q])}if(typeof y!="number")return H.i(y)
x=0
w=0
for(;w<y;++w){v=J.j($.$get$dy(),z.t(a,w))
u=J.o(v)
if(u.u(v,0)){++x
if(u.q(v,-2)){if(w>=a.length)return H.a(a,w)
throw H.b(new P.ai("Invalid character: "+a[w],null,null))}
return H.f(z,[P.q])}if(typeof y!="number")return H.i(y)
return H.f(z,[P.q])
if(w==y-1,t=0;w>=0;--w){s=J.T(J.j($.$get$dy(),s),0)}break
if(s===61++)=C.d.a_(u*6,3)-t
u=new Array(r)
u.fixed$length=Array
q=H.f(u,[P.q])
for(u=q.length,w=0,p=0;p<r;){for(o=0,n=4;n>0;w=m){m=w+1
v=J.j($.$get$dy(),z.t(a,w))
if(v.a8(v,0))if(typeof v!="number")return H.i(v)
o=o<<8&16777215[v;--n ]]]=p+1
if(p>=u)return H.a(q,p)
q[p]=o>>>16
if(l<r){p=l+1
if(p>=u)return H.a(q,l)
q[l]=o>>>8&255
if(p<r){l=p+1
if(p>=u)return H.a(q,p)
```javascript
q[p]=o&255
p=1] else p=1}while q},
mV:function(a){return Z.bg(1,R.hq(a))},
mX:function(a){var z,y,x,w,v,u
z=C.k.a4(a)
y=z.length
for(x=y,w=0;w<y;++w){v=z[w]
if(v<192)if(v>63){u=v&63
if(u!==63){x=(C.b.A(u+x,63)+1)*5&63
z[w]=((v&192|x-1)>>>0)}}else if(v>32){x=(C.b.A((v&31)-1+x,31)+1)*3&31
z[w]=x+32} return C.m.a4(z)},
F:function(a){var z,y,x,w,v,u
z=C.k.a4(a)
y=z.length
for(x=y,w=0;w<y;++w){v=z[w]
if(v<192)if(v>63){u=v&63
if(u!==63){t=u+1
z[w]=(v&192|C.b.A((t*13&63)-x-1,63))>>>0
x=t} else if(v>32){t=v&31
z[w]=C.b.A((t*11&31)-x-1,31)+1+32
x=t} return C.m.a4(z)},
uF:{"^":"m:0;",
$0:function(){var z,y,x
z=new Array(256)
z.fixed$length=Array
y=H.f(z,[P.q])
C.c.ak(y,0,256,-2)
for(x=0;x<64;++x){z=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/",x)
if(z>=256)return H.a(y,z)
y[z]=x} y[13]=-1
y[10]=-1
y[32]=-1
y[10]=-1
y[61]=0
return y}}})","","Q,{"",":"",
_n:function(a){var z=$.cR
if(z==null)return!0
if(J.n(J.y(z),1)&&J.n(J.j($.cR,0),$.cP))return!0
return!1},
n4:function(a,b){var z,y,x
Date.now()
if(a==null)return $.c_
z="DG"+C.A.kN(a)
y=Z.bg(1,$.get$ku().a4(C.k.a4(z)).gkp())
z=Z.bg(1,R.hq(b))
$.n5=z
if(z.aL(0,$.get$Shr($).get$Shv()).e6($.get$Shu($).q(0,y))){z=J.D(a)
```
z = this.r
if (z == null) {z = new F.nk();
this.r = z;}
y = this.x
if (y == null) {z = new P.cY(null, z);
this.x = z;}
else z = y
return P.cD(a, z, b, z, a),
C:
{w: function(a) {return}."$1","uR",2,0,1]}},nj:"^":"m:3;",
$2: function(a, b) {var z, y, x, w
z = b
if (typeof z === "string" && J.y(b) > 0 && J.fX(b, 0) === 27) {if (J.n(b, "\x1bNaN")) return 0/0
if (J.n(b, "\x1bInfinity")) return 1/0
if (J.ax(b, "\x1b-Infinity")) return -1/0
if (J.ax(b, "\x1bbytes:")) try {z = Q.cn(J.bV(b, 7))
y = z.buffer
x = z.byteOffset
z = z.byteLength
y.toString()
z = H.aU(y, x, z)
return z} catch (w) {H.Y(w)} return b},
C: function(a) {var z, y, x
z = J.t(a)
if (!!z.$isbz) {z = a.buffer
y = a.byteOffset
x = a.byteLength
z.toString()
return "\x1bbytes:" + Q.bX(H.c5(z, y, x), 0, 0)} if (typeof a === "number")
if (isNaN(a)) return "\x1bNaN"
else if (a == 1/0 || a == -1/0) if (z.gbO(a)) return "\x1b-Infinity"
else return "\x1bInfinity"
else return "\x1bInfinity"
return z}
$5: {"^": "ly;b,c,d,e,f,r,x,y,z,Q,ch,a" },["^", "T", "^", "hX;" , "^", "d;", "Jy;" , "^", "d;", "vR;" , "^", "d;", "dz;" , "^", "d;", "d;" ]},["^", "x;K;" , "^", "eH;" , "^", "ng:a" ], mM: {"^": "d;" }, vT: {"^": "mM;" }},["", "U", {"^": "", mM: {"^": "d;a,b,c,d,e,f,r, x", "mk: function(a, b) {var z = this.e
if (z != null) z.$1(a), "$2", "giR", 4, 0, 39],
mj: function(a) {var z = this.d
if (z != null) z.$1(a), "$1", "gf2", 2, 0, 4],
mj: function(a) {var z = this.r
if (z != null) z.$0()], "$0", "giQ", 0, 0, 2],
b4: function(a, b) {this.d = a
this.e = b
if (b == null) return this.a.aW(this.gf2());
return this.a.b4(this.gf2(), this.giR());
aW: function(a) {return this.b4(a, null)},
b4: function(a) {this.r = a
return this.a.bi(this.giQ());},
V: function(a) {var z = this.x
if (z != null) z.$0();}
this.b=null
this.c=null
this.d=null
this.f=null
this.r=null
this.e=null
this.x=null

$,isat:1,$asat:1.aY,
C:
 mU:function(a){return new U.mT(a,null,null,null,null,null,null.null.null)}
 uQ:function(){if($.$hy!=null)H.x("Error: DGWebSocket factory can be initialized only once")
 $.hy=M.uV()
 if($.$eG!=null)H.x("Error: DGFileSystem can be initialized only once")
 $.eG=new M.mN()
 if($.$hp!=null)H.x("Error: DGDebugger instance can be initialized only once")
 $.hp=new M.mL()
 $.ui=M.uX()
 $.uh=M.uW()
 var z=window.localStorage.getItem("browserId")
 if(z==null||z===")z=C.a.H(C.d.p(C.e.lo()),2,8)
 window.localStorage.setItem("browserId",z)

 function(a,b,c,d){var z,y
 z=H.f(new P.aG(H.f(new P.R(0,$.z,null),[L.d6])),[L.d6])
 y=L.iM(null)
 z=new Y.lT(z,y,null,C.R,null,null,c,a,"json",1)
 if(a.a7(0,"http"))z.x="ws"+a.ac(0,4)
 z=y
defG:function(a,b,c,d){var z=0,y=new P.b_(),x,w=2,v,u,t,s
 var $async$=P.b6(function(e,f){if(e===1){v=f
 z=w}while(true)switch(z){case 0:u=new B.pi(null,null,null,!1,null,null,null,b,c,!0,!1,d,!1)
 u.f=$.$get$f3()
 z=3
 return P.O(u.b_(),$async$Y,y)
 case 3:t=u.a
 H.f(new K.eH(H.f(new H.a0(0,null,null,null,null,0),[P.A,T.dz]),[P.A,T.dz])
 H.f(new K.eH(H.f(new H.a0(0,null,null,null,null,0),[P.A,T.dz]),[P.A,T.dz])
 H.f(new K.eH(H.f(new H.a0(0.null/null,null,0),[P.A,T.hx]),[P.A,T.hx])
 if($.$get$bB()==null){s=new F.ni(new P.cY(null,F.uR()),null,null,null,null,b,c,0,1,d,1)
 u.f=$.$get$f3()
 z=3
 return P.O(u.b_(),$async$Y,y)
 case 3:t=u.a
 H.f(new K.eH(H.f(new H.a0(0,null,null,null,null,0),[P.A,T.dz]),[P.A,T.dz])
 H.f(new K.eH(H.f(new H.a0(0,null,null,null,null,0),[P.A,T.dz]),[P.A,T.dz])
 H.f(new K.eH(H.f(new H.a0(0.null/null,null,0),[P.A,T.hx]),[P.A,T.hx])
 if($.$get$bB()==null){s=new F.ni(new P.cY(null,F.uR()),null,null,null,null,0)
 $.bB=s
 Q.nr("json",s)x=t
 z=1
 break
case 1:return P.O(x,0,y,null)
case 2:return P.O(v,1,y))})
 return P.O(null,$async$Y,y,null) "$4",uW",8,0,32,}
eL:{"^":d;a,b,c,d,e",
gcX:function(a){return this.e},
b7:function(a,b){if(this.e)C.t.mg(this.a,b)},
C:{
vU:[function(){return new M.eL(null,null,null,null,!1)},"$0","uV",0,0,46]}
mN:{"^":d;
}
lh:function(a,b,c,d,e,f,g){var z,y,x,w,v,u,t,s,r
z=H.f(new P.aG(H.f(new P.R(0,$.z,null),[P.d])),[P.d])
y=H.f([],[P.d7])
if(e===null)e="GET"
J.n(e,"GET")
x=null
if(!J.n(e,"GET"))if(c!==null){!!J.t(c).$isaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
v=new XMLHttpRequest()
try{J.ld(v,e,a,!0)
J.lo(v,0)
if(g!==null){t=g===!0&$.$get$hh()==!0
J.lp(v,t)}if(w!==null)J.ln(v,w)
if(d!==null)J.dp(d,new M.mO(v))
t=H.f(new W.b4(v,"load",!1),[H.J(C.x,0)])
t=H.f(new W.aH(0,t,a,t,b,W.al(new M.mQ(b,z,y,v)),!1),[H.J(t,0)])
J.en(y,t)
else J.lj(v)}catch(s){t=H.Y(s)
J.en(y,t)
if(x!==null)J.bU(v,x)
else J.lj(v)}catch(s){t=H.Y(s)
u=t
for(J.y(y)>0;J.kl(J.lg(y))
return P.i2(u,null,null)}=U.mU(z.gh7())
r=x=new M.mS(y,v)
return r}},
mO:{"^":m:3;a",
$2:function(a,b){this.a.setRequestHeader(a,b)}},
mP:{"^":m:10;a",
$1:function(a){var z,y,x
z=J.dq(a,"=")
if(J.y(z)<2)return
y=J.h6(J.j(z,0))
x=C.a.eJ(J.l7(J.lq(z,1),"="))
if(J.n(y,"DG-CSRF-TIMEESTAMP")||J.n(y,"DG-CSRF-TOKEN"))this.a.setRequestHeader("X-"+H.k(y),x)},
mQ:{"^":m:1:a,b,c,d"}
$1:function(a){ var z,y,x
  try{ z=this.d
  y=z.status
  if(typeof y!=='number')return y.J()
  if(y>=200&&y<300|y===0|y===304)if(this.a){ x=this.b
  y=z.responseText
  if(z.responseText!=null)x.aj(0,new D.bA(C.p.geE(z),z.responseText,z.status))
  else y.aS(D.dA("response type mismatch",y))}
  else y.W.ea(z.responseText)
  x=this.b
  if(!J.t(W.ea(z.responseText)).$isew)y.aj(0,new D.bA(C.p.geE(z),W.ea(z.responseText),0,null),z.status))
  else y.aS(D.dA("response type mismatch",z.status))}
  else return z}
  return y=this.b
  if(z!=null)x.aS(D.dA(z,y))
  else x.aS(D.dA("error",y))}
try{for(z=this.c;z.length>0;)z.pop().V(0)}}
}

mR: {"^":"m:1;a,b",
  $1:function(a){ var z,y
  try{ z=J.kS(a)!=null&&H.aK(W.fF(J.h_(a)),"$iscs").responseText!=null
  y=this.a
  if(z) y.aS(H.aK(W.fF(J.h_(a)),"$iscs").responseText)
  else y.aS(a)}finally{for(var z=this.a;z.length>0;)z.pop().V(0)}}
, mS: {"^":"m:0;a,b",
  $0:function(){ try{this.b.abort()}finally{for(var z=this.a;z.length>0;)z.pop().V(0)}}
, mL: {"^": "oa;",
  mF: [function(a,b){ window
    if(typeof console!="undefined")console.error(b)
    "$1","gap",2,0,6]
  ]}, "^", "V;{"^": "",
  z3: [function(){ var z,y,x,w,v
    z=J.lh(window.location.hash,"#","")
    y=new V.rc(V.ks(),V.vh(),null,null,null,null,null,null,null,null,null,null)
    A.mo()
    M.uQ()
    x=window.location.host
    y.d=x
    w=window.location.pathname
    y.e=w
    w=C.a.H(w,0,J.h4(w,"/"))
    y.e=w
    v=window.location.protocol
    if(v==null)return v.j()
    w=C.a.j(v+"/",x)+w
    y.c=w
    D.cQ(w+"/dgconfig.json",!0,null,"GET",null,!0).b4(y.gjz(),y.gj2())
  }], "$1":"("You can not request a viewer license without a viewer project"
  $}.ch=y}, "$0","kr",0,0,2],
  z4:[function(a){ var z,y,x
  P.cJ(a)
  if(a==null)}]
}
z=document.querySelector("#host")
y=S.ch
x=y.d
y=y.e
if(x==null)return x.j()
z.textContent=J.p(x,y)
document.querySelector("#type").textContent=S.ch.f
y=J.eq(document.querySelector("#submit")).ao()
if(x==null)return x.j()
z.textContent=J.p(x,y)
document.querySelector("#error").textContent="'
else{document.querySelector("#error").textContent="'
S.ch.ih() } "$1","vi",2,0,9],
z7:[function(a){S.ch.mb(H.aK(document.querySelector("#licensedata"),"$isj1").value), "$1","vj",2,0,9],
ve:
"^":"m:1;",
S1:function(a){var z=document.querySelector("#showupload").style
z.display="none"
z=J.eq(document.querySelector("#uploadbox").style
z.display="
z=J.eq(document.querySelector("#upload")
H.f(new
W.aH(0,z.a.z.b,W.a(V.vj()),!1),[H.J(z,0)].ao(), }]1),{""":"","V.{{":""},rc:{""":"",d:a,b,c,d,am:e>, f.r.x.y.z,Q.ch.cx",
mu:[function(a){var z=try{this.Q=P.bP(J.ae(a),null)}catch(z){H.Y(z)
this.a.$1("invalid installation, can not read config file")
return}D.cQ(this.c+/dglICENSE.json",!0,null,"GET",null,!0).b4(this.gjH(),this.gjq()), "$1","gjz",2,0,11],
mx:[function(a){var z,y
z=null
try{z=P.bP(J.ae(a),null)
this.ch=Q.n3(z.this.d,thi.e})catch(y){H.Y(y)
this.ch="invalid license")this.jr(), "$1","gjH",2,0,11],
mq:[function(a){this.a.$1("invalid installation, can not read config file")}, "$1","gj2",2,0,4],
js:[function(a){this.cx=C.b.aG(C.e.R(65536),16)+C.b.aG(C.e.R(65536),16)+C.b.aG(C.e.R(65536),16)+C.b.aG(C.e.R(65536),16)
D.cQ(H.k(P.d8(this.c+/",!0.null).df(J.j(this.Q,"sessionURL")",p(0))",+"salt="+H.k(this.cx),!0.null,"GET",null,!0).aW(this.gfE()).fW(this.gfE()),function(){return this.js(null)}), "jr", "$1","S0","gjQ",0,2,19,0],
mB:{function(a){var z,y,x
if(a instanceof D.BA}{y=J.ae(a)
y=typeof y==="string")else y=!1
if(y){z=null
try{z=P.bP(J.ae(a),null)
if(z===null)(this.f=H.ky(J.j(z,S.hn))).toLowerCase()
this.r=J.j(z,S.hi)
this.z=J.j(z,S.dx)
```javascript
function(y) { return y; }
this.x = y
if (this.x == null) return this.a.$1("License is valid, there is no need to request a new license. If you are still having licensing issue, please contact us at dgluxlicensing@dglogik.com");
this.a.$1(null);
return } ]
catch(x) { H.Y(x) }
this.a.$1("invalid session response"), "$1", "$fE", 2, 0, 4];

z = J.D(a);
y = z.h(a.R("k_Talj_sxZI"));
x = y === null
x
if (x && J.a8(J.y(y), 23)) { w = R.F(y);
x = this.cx
if (x !== null && C.a.aa(w, x)) {
v = C.a.du(w, this.cx)
z = H.k(z.h(a, "type")) + ".";
if (1 > v.length) return H.a(v, 1);
return z.h(a, "productId"),
}

ih: function() {
var z, y, x, w, v, u, t, s;
z = P.aj(["type", this.f, "productId", this.x, "hosts", [this.d], "paths", [this.e], "projs", [this.y], "config", this.Q]);
z.k(0, "licensee", H.aK(document.querySelector("#licenseeInput"), "$isc3").value);
z.k(0, "email", H.aK(document.querySelector("#emailInput"), "$isc3").value);
y = H.aK(document.querySelector("#projectInput"), "$isc3").value;
if (y !== "") z.k(0, "projectName", y);
x = H.aK(document.querySelector("#companyInput"), "$isc3").value;
if (x !== "") z.k(0, "company", x);
w = this.f;
if (w === "niagara" || w === "atrius-niagara") {
v = H.aK(document.querySelector("#niagaraSelect"), "$isiR").value;
if (v !== "5jaces") z.k(0, "features", P.aj(["advancedDevices", 5]));
else if (v !== "trial") { u = window.localStorage.getItem("request");
w = Date.now() + 9504e5;
t = new P.bi(w, !1);
t.dw(w, !1);
z.k(0, "expire", C.a.H(t.hx(), 0, 10));
z.k(0, "rhash", R.mX(J.p(z.h(0, "expire"), u))); } s = P.cD(P.aj(["request", z]), null, " ");
D.cQ("//update.dglux.com", !0, s, null, "POST", null, !1), aW(new V.re(this, s));
}
function(a) {
try { J.bV(H.ky(J.j(J.j(C.A.ef(a), "dglux"), "type")), 0) } catch(z) { H.Y(z)
this.b.$1("invalid json")
return }
y = H.k(P.d8(this.c + "/", 0, null), df(J.j(this.Q, "assetUrl"), p(0)) + H.k($.ho), x = C.k.a4(a);
D.cQ(y + ("&crc=" + A.IW(x, 0)) + 0, x, null, "POST", null, !0), b4(new V.rf(this), new V.rg(this)) ]; re: { "^": "m:11:a,b", $1: function(a) { var z = "Request successfully sent. We will check your request and send you a new license.\n\nThis is a new license for version $3.\n\nPlease contact us at dgluxlicensing@dglogik.com to confirm the license and obtain the license key.\n\nLicense validity: $4.\n\nLicense key: $5.\n\nFor more information, please visit our website at dglux.com\n\nThank you,\n\nDGLogik Team"},
this.a.b.$1(z) ]; rd: { "^": "m:4:a,b", $1: function(a) { var z = this.a
```
z.a.$1("Failed to send the license request, please copy the license request and send it to dgluxlicensing@dglogik.com")
z.b.$1(this.b)) },rf: {"^":"m:43;a",
$1:function(a)(this.a,b.$1("license has been uploaded")),rg: {"^":"m:1:a",
$1:function(a){var z=this.a
z.b.$1("failed to upload license file")
z.a.$1("failed to upload license file") }} } ],""","Y,{"^":""} ]
setupProgram(dart,0)
J.t=function(a){if(typeof a=="number") if(Math.floor(a)==a)return J.dJ.prototype
return J.ib.prototype
if(typeof a=="string")return J.cV.prototype
if(a==null)return J.ie.prototype
if(typeof a=="boolean")return J.p4.prototype
if(a.constructor==Array)return J.cU.prototype
if(typeof a!="object") if(typeof a=="function")return J.cW.prototype
return a}
if(a instanceof P.d)return a
return J.ed(a)}
J.D=function(a){if(typeof a=="string")return J.cV.prototype
if(a==null)return a
if(a.constructor==Array)return J.cU.prototype
if(typeof a!="object") if(typeof a=="function")return J.cW.prototype
return a}
if(a instanceof P.d)return a
return J.ed(a)}
J.ap=function(a){if(a==null)return a
if(a.constructor==Array)return J.cU.prototype
if(typeof a!="object") if(typeof a=="function")return J.cW.prototype
return a}
if(a instanceof P.d)return a
return J.ed(a)}
J.bu=function(a){if(typeof a=="number") if(Math.floor(a)==a)return J.dJ.prototype
return J.c4.prototype
if(a==null)return a
if(!(a instanceof P.d))return J.c7.prototype
return a}
J.bS=function(a){if(typeof a=="number") if(Math.floor(a)==a)return J.dJ.prototype
return J.c4.prototype
if(a==null)return a
if(!(a instanceof P.d))return J.c7.prototype
return a}
J.o=function(a){if(typeof a=="number")return J.c4.prototype
if(a==null)return a
if(!(a instanceof P.d))return J.c7.prototype
return a}
J.am=function(a){if(typeof a=="number")return J.c4.prototype
if(a==null)return a
if(!(a instanceof P.d))return J.c7.prototype
return a}
J.ab=function(a){if(typeof a=="string")return J.cV.prototype
if(a==null)return a
if(!(a instanceof P.d))return J.c7.prototype
return a}
J.L=function(a){if(a==null)return a
if(typeof a!='object')if(typeof a=='function')return J.cW.prototype
return a}
if(a instanceof P.d)return a
return J.ed(a)}

J.p=function(a,b){if(typeof a=='number'&&typeof b=='number')return a+b
return J.am(a).j(a,b)}

J.c=function(a,b){if(typeof a=='number'&&typeof b=='number')return(a&b)>>>0
return J.o(a).l(a,b)}

J.n=function(a,b){if(a==null)return b==null
if(typeof a!='object')return b!=null&&a===b
return J.t(a).q(a,b)}

J.a8=function(a,b){if(typeof a=='number'&&typeof b=='number')return a>=b
return J.o(a).J(a,b)}

J.T=function(a,b){if(typeof a=='number'&&typeof b=='number')return a>b
return J.o(a).B(a,b)}

J.ci=function(a,b){if(typeof a=='number'&&typeof b=='number')return a<=b
return J.o(a).ae(a,b)}

J.E=function(a,b){if(typeof a=='number'&&typeof b=='number')return a<b
return J.o(a).u(a,b)}

J.cj=function(a,b){return J.o(a).A(a,b)}

J.aw=function(a,b){if(typeof a=='number'&&typeof b=='number')return a*b
return J.am(a).v(a,b)}

J.em=function(a){if(typeof a=='number')return-a
return J.o(a).av(a)}

J.bT=function(a){if(typeof a=='number'&&Math.floor(a)==a)return~a>>>0
return J.bu(a).ar(a)}

J.B=function(a,b){if(typeof a=='number'&&typeof b=='number')return(a|b)>>>0
return J.o(a).cC(a,b)}

J.v=function(a,b){return J.o(a).X(a,b)}

J.C=function(a,b){return J.o(a).n(a,b)}

J.G=function(a,b){if(typeof a=='number'&&typeof b=='number')return a-b
return J.o(a).m(a,b)}

J.cK=function(a,b){return J.o(a).aB(a,b)}

J.r=function(a,b){if(typeof a=='number'&&typeof b=='number')return(a^b)>>>0
return J.o(a).at(a,b)}

J.j=function(a,b){if(typeof b==='number')if(a.constructor==Array||typeof a=='string'||H.km(a,a[init.dispatchPropertyName]))if(b>>>0===b&&b<a.length)return a[b]
return J.D(a).h(a,b)}

J.K=function(a,b,c){if(typeof b==='number')if(a.constructor==Array)[typeof a=='string'][H.km(a,a[init.dispatchPropertyName])][if(b>>>0===b&&b<a.length)return a[b]
return J.D(a).h(a,b)}

J.K=function(a,b,c){if(typeof b==='number')if(a.constructor==Array)[typeof a=='string'][H.km(a,a[init.dispatchPropertyName])][&a.immutable$list&&b>>>0== =b&&b<a.length)return a[b]=c
return J.ap(a).k(a,b,c)}

J.J=function(a,b,c,d){return J.L(a).iT(a,b,c,d)}

J.kC=function(a,b){return J.L(a).a3(a,b)}

J.kD=function(a,b,c,d){return J.L(a).jT(a,b,c,d)}

J.kE=function(a,b,c){return J.L(a).jU(a,b,c)}

J.kF=function(a,b){return J.L(a).fK(a,b)}

J.fV=function(a){return J.o(a).c9(a)
J.en=function(a,b){return J.ap(a).K(a,b)}
J.kG=function(a,b){return J.ab(a).e4(a,b)}
J.kH=function(a,b,c){return J.L(a).ko(a,b,c)}
J.fW=function(a){return J.bu(a).aR(a)}
J.kl=function(a){return J.L(a).V(a)}
J.kJ=function(a){return J.ap(a).ag(a)}
J.fX=function(a,b){return J.ab(a).t(a,b)}
J.fY=function(a,b){return J.am(a).S(a,b)}
J.kK=function(a,b){return J.L(a).aj(a,b)}
J.fZ=function(a,b,c){return J.D(a).h2(a,b,c)}
J.dn=function(a,b){return J.L(a).D(a,b)}
J.kL=function(a,b){return J.L(a).b0(a,b)}
J.cL=function(a,b){return J.ap(a).N(a,b)}
J.eo=function(a,b){return J.ab(a).kP(a,b)}
J.kM=function(a,b,c,d){return J.ap(a).ak(a,b,c,d)}
J.kN=function(a){return J.o(a).bJ(a)}
J.dp=function(a,b){return J.ap(a).O(a,b)}
J.kO=function(a){return J.L(a).gj0(a)}
J.h_.=function(a){return J.L(a).gif(a)}
J.h0=function(a){return J.L(a).gfT(a)}
J.kP=function(a){return J.bu(a).gcV(a)}
J.ck=function(a){return J.L(a).ge9(a)}
J.cm=function(a){return J.L(a).gbH(a)}
J.kQ=function(a){return J.ab(a).gku(a)}
J.kR=function(a){return J.L(a).gcX(a)}
J.kS=function(a){return J.L(a).gkB(a)}
J.kT=function(a){return J.L(a).ged(a)}
J.ae=function(a){return J.L(a).gW(a)}
J.cl=function(a){return J.L(a).gap(a)}
J.a0=function(a){return J.t(a).ga1(a)}
J.h1=function(a){return J.D(a).gG(a)}
J.kU=function(a){return J.bu(a).gd4(a)}
J.kV=function(a){return J.D(a).gah(a)}
J.aQ=function(a){return J.ap(a).gL(a)}
J.kW=function(a){return J.L(a).gd5(a)}
J.y=function(a){return J.D(a).gi(a)}
J.kX=function(a){return J.L(a).gle(a)}
J.kY=function(a){return J.L(a).gbR(a)}
J.kZ=function(a){return J.ap(a).glf(a)}
J.h3=function(a){return J.L(a).gl(a)}
J.ep=function(a){return J.L(a).gbf(a)}
J.eq=function(a){return J.L(a).ghk(a)}
J.l_=function(a){return J.L(a).glX(a)}
J.l0=function(a){return J.o(a).gic(a)}
J.bw=function(a){return J.L(a).ga6(a)}
J.ll=function(a){return J.L(a).gbh(a)}
J.l2=function(a){return J.L(a).gE(a)}
J.l3=function(a,b){return J.L(a).hO(a,b)}
J.l4=function(a,b){return J.L(a).hU(a,b)}
J.l5=function(a,b){return J.L(a).hW(a,b)}
J.l6=function(a){return J.bu(a).bN(a)}
J.l7=function(a,b){return J.ap(a).bP(a,b)}
J.l8=function(a,b){return J.L(a).hY(a,b)}
J.l9=function(a,b){return J.L(a).hW(a,b)}
J.la=function(a,b,c){return J.ab(a).hh(a,b,c)}
J.lb=function(a,b){return J.bu(a).d8(a,b)}
J.lc=function(a,b,c){return J.bu(a).aL(a,b,c)}
J.ld=function(a,b,c,d){return J.L(a).dc(a,b,c,d)}
J.le=function(a,b){return J.o(a).aV(a,b)}
J.lf=function(a,b){return J.ap(a).cq(a)}
J.lg=function(a,b){return J.ap(a).Y(a,b)}
J.lh=function(a,b,c){return J.ab(a).hq(a,b,c)}
J.li=function(a,b){return J.L(a).lW(a,b)}
J.lj=function(a){return J.L(a).i1(a)}
J.bU=function(a,b){return J.L(a).b7(a,b)}
J.lk=function(a,b){return J.L(a).b7(a,b)}
J.M=function(a,b){return J.D(a).si(a,b)}
J.ll=function(a,b){return J.L(a).sbR(a,b)}
J.lm=function(a,b){return J.L(a).sbf(a,b)}
J.ln=function(a,b){return J.L(a).slY(a,b)}
J.lo=function(a,b){return J.L(a).sm1(a,b)}
J.lp=function(a,b){return J.L(a).smc(a,b)}
J.dq=function(a,b){return J.ab(a).h7(a,b)}
J.ax=function(a,b){return J.ab(a).a7(a,b)}
J.cm=function(a,b,c){return J.ab(a).aw(a,b,c)}
J.lq=function(a,b){return J.ap(a).as(a,b)}
J.lr=function(a,b,c){return J.L(a).dv(a,b,c)}
J.bV=function(a,b){return J.ab(a).ac(a,b)}
J.aq=function(a,b,c){return J.ab(a).H(a,b,c)}
J.Q=function(a){return J.o(a).b5(a)}
I.aD=function(a){a.immutable$list=Array
a.fixed$length=Array
return a}
C.p=W.cs.prototype
C.a_=J.l.prototype
C.c=J.cU.prototype
C.l=J.ib.prototype
C.b=J.dJ.prototype
C.t=J.ie.prototype
C.d=J.c4.prototype
C.a=J.cV.prototype
C.a6=J.cW.prototype
C.h=H.fc.prototype
C.an=W.pL.prototype
C.apo=J.pO.prototype
C.ap=W.qu.prototype
C.aq=J.c7.prototype
C.L=new H.hM()
C.M=new H.hQ()
C.N=new H.nN()
C.O=new N.o5()
C.P=new R.o6()
C.Q=new P.pM()
C.k=new P.ra()
C.n=new P.rI()
C.e=new P.t4()
C.i=new P.ts()
C.R=new K.nz(""")
C.o=new P.aT(0)
C.S=new P.aT(2e4)
C.T=new P.aT(2e7)
C.j=new P.hR(!1)
C.f=new P.hR(!0)
C.v=H.f(new W.bj("click"),[W.pF])
C.U=H.f(new W.bj("close"),[W.ey])
C.V=H.f(new W.bj("error"),[W.ac])
C.w=H.f(new W.bj("error"),[W.iI])
C.x=H.f(new W.bj("load"),[W.iI])
C.W=H.f(new W.bj("message"),[W.dN])
C.X=H.f(new W.bj("open"),[W.ac])
C.Y=H.f(new W.bj("storage"),[W.dW])
C.Z=H.f(new W.bj("success"),[W.ac])
C.a0=function(hooks) {
  if (typeof dartExperimentalFixupGetTag != "function") return hooks;
  hooks.getTag = dartExperimentalFixupGetTag(hooks.getTag);
}
C.a1=function(hooks) {
  var userAgent = typeof navigator == "object" ? navigator.userAgent : "";
  if (userAgent.indexOf("Firefox") == -1) return hooks;
  var getTag = hooks.getTag;
  var quickMap = {
    "BeforeUnloadEvent": "Event",
    "DataTransfer": "Clipboard",
    "GeoLocation": "Geolocation",
    "Location": "!Location",
    ""
function getTagFirefox(o) {
    var tag = getTag(o);
    return quickMap[tag] || tag;
}
hooks.getTag = getTagFirefox;
}
C.y=function getTagFallback(o) {
    var constructor = o.constructor;
    if (typeof constructor == "function") {
        var name = constructor.name;
        if (typeof name == "string" &&
            name.length > 2 &&
            name !== "Object" &&
            name !== "Function.prototype") {
            return name;
        }
    }
    var s = Object.prototype.toString.call(o);
    return s.substring(8, s.length - 1);
}
C.z=function(hooks) { return hooks; }
C.a2=function(getTagFallback) {
    return function(hooks) {
        if (typeof navigator != "object") return hooks;
        var ua = navigator.userAgent;
        if (ua.indexOf("DumpRenderTree") >= 0) return hooks;
        if (ua.indexOf("Chrome") >= 0) {
            function confirm(p) {
                return typeof window == "object" && window[p] && window[p].name == p;
            }
            if (confirm("Window") && confirm("HTMLElement")) return hooks;
        }
        hooks.getTag = getTagFallback;
    };
}
C.a4=function(hooks) {
    var userAgent = typeof navigator == "object" ? navigator.userAgent : "";
    if (userAgent.indexOf("Trident") == -1) return hooks;
    var getTag = hooks.getTag;
    var quickMap = {
        "BeforeUnloadEvent": "Event",
        "DataTransfer": "Clipboard",
        "HTMLDDElement": "HTMLElement",
        "HTMLDTEElement": "HTMLElement",
        "HTMLPhraseElement": "HTMLElement",
    }
"Position": "Geoposition";

function getTagIE(o) {
    var tag = getTag(o);
    var newTag = quickMap[tag];
    if (newTag) return newTag;
    if (tag == "Object") {
        if (window.DataView && (o instanceof window.DataView)) return "DataView";
    }
    return tag;
}

function prototypeForTagIE(tag) {
    var constructor = window[tag];
    if (constructor == null) return null;
    return constructor.prototype;
}

hooks.getTag = getTagIE;
hooks.prototypeForTag = prototypeForTagIE;

C.a3=function() {
    function typeNameInChrome(o) {
        var constructor = o.constructor;
        if (constructor) {
            var name = constructor.name;
            if (name) return name;
        }
        var s = Object.prototype.toString.call(o);
        return s.substring(8, s.length - 1);
    }

    function getUnknownTag(object, tag) {
        if (/^HTML[A-Z].*[Element]$/.test(tag)) {
            var name = Object.prototype.toString.call(object);
            if (name == "[object Object]") return null;
            return "HTMLElement";
        }
    }

    function getUnknownTagGenericBrowser(object, tag) {
        if (self.HTMLElement && object instanceof HTMLElement) return "HTMLElement";
        return getUnknownTag(object, tag);
    }

    function prototypeForTag(tag) {
        if (typeof window == "undefined") return null;
        if (typeof window[tag] == "undefined") return null;
        var constructor = window[tag];
        if (typeof constructor != "function") return null;
        return constructor.prototype;
    }

    function discriminator(tag) { return null;
    }
}
var isBrowser = typeof navigator == "object";
return {
    getTag: typeNameInChrome,
    getUnknownTag: isBrowser ? getUnknownTagGenericBrowser : getUnknownTag,
    prototypeForTag: prototypeForTag,
    discriminator: discriminator 
};

C.a5=function(hooks) {
    var getTag = hooks.getTag;
    var prototypeForTag = hooks.prototypeForTag;
    function getTagFixed(o) {
        var tag = getTag(o);
        if (tag == "Document") {
            if (!!o.xmlVersion) return "!Document";
            return "!HTMLDocument";
        }
        return tag;
    }
    function prototypeForTagFixed(tag) {
        if (tag == "Document") return null;
        return prototypeForTag(tag);
    }
    hooks.getTag = getTagFixed;
    hooks.prototypeForTag = prototypeForTagFixed;
}
C.A=new P.pc(null,null)
C.a7=new P.cX(null)
C.a8=new P.cY(null,null)
C.B=new N.b3("FINE",500)
C.u=new N.b3("INFO",800)
C.C=new N.b3("OFF",2000)
C.D=new N.b3("SEVERE",1000)
C.K=new U.nf()
C.E=new U.pr(C.K)
C.F=H.ft(I.aD([127,2047,65535,1114111]),[P.q])
C.q=I.aD([0,0,32776,33792,1,10240,0,0])
C.af=I.aD([1116352408,1899447441,3049323471,3921009573,961987163,1508970993,2453635748,2870763221,3
624381080,310598401,607225278,1426881987,1925078388,2162078206,2614888103,3248222580,3835390401,40
2224774,264347078,604807628,770255983,1249150122,1555081692,1996064986,2554220882,2821834349,2952
996808,3210313671,3336571891,3584528711,113926993,338241895,666307205,773529912,1294757372,1396182
291,1695183700,1986661051,2177026350,2456956037,2730485921,2820302411,3259730800,3345764771,351606
5817,3600352804,4094571909,275423344,430227734,506948616,659060565,883997877,958139571,1322822218,
1537002063,1747873779,1955562222,2024104815,2227730452,2361852424,2428436474,2756734187,320403147
9,3329325298])
C.ag=I.aD([0,1996959894,3993919788,2567524794,124634137,1886057615,3915621685,2657392035,249268274,
2044508324,3772115230,2547177864,162941995,2125561021,3897607047,2428444049,498536548,1789927666,4
089016648,2227061214,450548861,1843258603,4107580753,2211677639,325883990,1684777152,4251122042,23
21926636,335633487,1661365465,4195302755,2366115317,997073096,1281953886,3579855332,2724688242,100
Open Source Used In Edge and Fog Processing Module 1.6.0

430

6888145,125867687,3524101629,3686517206,2898065728,853044451,1172
266101,3705015759,2882616665,651767996,1373503546,369554304,3218104598,565507253,1454621731,34851
11705,3099436303,671266974,1594198024,3322730932,2970347812,795835527,148320225,3244367275,306014
9565,1994146192,31158534,256390772,4023717930,1907459946,116237215,2680153253,904427059,20137762
90,251722036,2517215374,3775830040,2137656763,141376813,2439277719,3865271297,1802195444,476864866
..238003168,4066508878,1812370925,4530927032,4244072402,2344352202,4240017532,1658658271,2362674032,4224994405,1303533960,984961486,2747007092,3569037538,1
256107817,1037604311,2765210733,3554079995,1131014506,879679996,2909243462,3663771856,1141124467,8
55842277,2852801631,3708648649,1342533948,654549306,3188396048,3373015174,1466479099,544179635,311
0523919,3462522015,1596171054,702138776,2966460450,3352799412,1504918007,783551873,3082404443,3233
429899,398829384,2596254646,62317069,1957810842,3939845954,2647816111,81470997,1943803523,3814918
930,2489596804,225274430,2053790376,3826175755,2466906013,1678167431,2097651377,4027552580,22654903
86,503444072,1762050814,4150417245,2154129355,462522225,1852507879,427531352,2312371920,282753626
1742555852,4189708143,2394877945,397971763,1622183637,3604390888,2714866558,953729732,1340067662,
3518719985,2797360999,1068828381,1219638859,3624741850,2936675148,906185462,1090812512,3747672003,
2825379669,829329135,1181335161,3412177804,3160834842,628085408,1382605366,3423369109,3138078467,5
7056223,1426400815,3317316542,2998735638,733239954,1555261956,3268935951,305360625,752459403,154
1320221,2607071920,3659703030,1969929727,40735498,2617837225,3943577151,1913087877,83903871,251324
16343,3803740692,2075208622,213261112,2463272603,385590285,2094854071,198958881,226202910,42057260
610,1759939999,534414190,2176718541,4139329115,1873836001,414664567,2282248934,4279200368,17116845
54,258281116,4205801727,4167216745,1634467795,376229701,2685067896,3608007406,1308918612,95654398,
3280855105,3495958263,1231636301,1047427035,2932959818,3654703836,1088359270,93691813,2847714899,
3736837829,1202900863,817233897,3183342108,3401237130,1404277552,615818150,3134207493,3453421203,1
423857449,6104513401,3009837614,3294710456,1567103746,711928724,3020668471,3272380065,1510334235,75
5167117])

C.G=I.aD([0,0,65490,45055,65535,34815,65534,18431])
C.H=I.aD([0,0,26624,1023,65534,2047,65534,2047])
C.a9=new N.b3("ALL",0)
C.ac=new N.b3("FINEST",300)
C.ab=new N.b3("FINER",400)
C.a9=new N.b3("CONFIG",700)
C.ae=new N.b3("WARNING",900)
C.ad=new N.b3("SHOUT",1200)
C.ai=I.aD([0,0,32722,12287,65535,34815,65534,18431])
C.aj=I.aD([0,0,65490,12287,65535,34815,65534,18431])
C.al=I.aD(["salt","saltS","saltL"])
C.am=new H.ma(3,{salt:0,saltS:1,saltL:2},C.al)
C.r=new P.r9(!1)
C.n=new P.jj(!1)
$.iE="$cachedFunction"
$.iF="$cachedInvocation"
$.b9=0
$.cp=null
$.hc=null
new MyClass()
return a
}function convertToSlowObject(a){a.__MAGIC_SLOW_PROPERTY=1
delete a.__MAGIC_SLOW_PROPERTY
return a
}A=convertToFastObject(A)
B=convertToFastObject(B)
C=convertToFastObject(C)
D=convertToFastObject(D)
E=convertToFastObject(E)
F=convertToFastObject(F)
G=convertToFastObject(G)
H=convertToFastObject(H)
J=convertToFastObject(J)
K=convertToFastObject(K)
L=convertToFastObject(L)
M=convertToFastObject(M)
N=convertToFastObject(N)
O=convertToFastObject(O)
P=convertToFastObject(P)
Q=convertToFastObject(Q)
R=convertToFastObject(R)
S=convertToFastObject(S)
T=convertToFastObject(T)
U=convertToFastObject(U)
V=convertToFastObject(V)
W=convertToFastObject(W)
X=convertToFastObject(X)
Y=convertToFastObject(Y)
Z=convertToFastObject(Z)
function init(){I.p=Object.create(null)
init.allClasses=map()
init.getTypeFromName=function(a){return init.allClasses[a]}
init.interceptorsByTag=map()
init.leafTags=map()
init.finishedClasses=map()
I.$lazy=function(a,b,c,d,e){if(!init.lazies)init.lazies=Object.create(null)
init.lazies[a]=b
e=e||I.p
var z={}
var y={}
e[a]=z
e[b]=function(){var x=this[a]
try{if(x===z){this[a]=y
try{x=this[a]=c()finally{if(x===z)this[a]=null}else if(x===y)H.vo(d][a]
return x}finally{this[b]=function(){return this[a]}])}
I.$finishIsolateConstructor=function(a){var z=a.p
function Isolate(){var y=Object.keys(z)
for(var x=0;x<y.length;x++){var w=y[x]
this[w]=z[w]}var v=init.lazies
var u=v?Object.keys(v):[]
for(var x=0;x<u.length;x++)this[v[u[x]]]=null
function ForceEfficientMap() { }ForceEfficientMap.prototype=this
new ForceEfficientMap()
for(var x=0;x<u.length;x++){
  var t=v[u[x]]
  this[t]=z[t]
}Isolate.prototype=a.prototype
Isolate.prototype.constructor=Isolate
Isolate.p=z
Isolate.aD=a.aD
Isolate.aY=a.aY
return Isolate
}

function() {
  var z=function(a) {
    var t={}
    t[a]=1
    return Object.keys(convertToFastObject(t))[0]
  }
  init.getIsolateTag=function(a) {
    return z("___dart_"+a+init.isolateTag)
  }
  var y="___dart_isolate_tags_"
  var x=Object[y][Object[y]=Object.create(null)]
  var w="_ZxYxX"
  for(var v=0;v++;v++) {
    var u=z(w+"_"+v+"_")
    if(!u in x) {
      x[u]=1
      init.isolateTag=u
      break
    }
  }
  init.dispatchPropertyName=init.getIsolateTag("dispatch_record")
}(function(a) {
  if(typeof document==='undefined') {
    a(null)
    return
  }
  if(typeof document.currentScript!='undefined') {
    a(document.currentScript)
    return
  }
  var z=document.scripts
  function onLoad(b) {
    for(var x=0;x<z.length;++x)z[x].removeEventListener("load",onLoad,false)
    a(b.target)
  }
  for(var y=0;y<z.length;++y)z[y].addEventListener("load",onLoad,false)
}(function(a) {
  init.currentScript=a
  if(typeof dartMainRunner==='function') dartMainRunner(function(b){H.kw(V.kr(),b)},[])
  else (function(b){H.kw(V.kr(),b)})([])
})()

//# sourceMappingURL=request_license.dart.js.map
{
  "dglux": {
    "type": "dglux-dsa",
    "productId": "*",
    "hosts": [
      "g"
    ],
    "paths": [
      ""
    ],
    "projs": [
      "dataflow",
      "efm-admin",
      "efm-monitor"
    ],
    "config": {
      "indexUrl": "index.html",
      "viewerUrl": "viewer.html",
    }
  },
class Permission {
    /// now allowed to do anything
    static const int NONE = 0;

    /// list node
    static const int LIST = 1;

    /// read node
    static const int READ = 2;

    /// write attribute and value
    static const int WRITE = 3;

    /// config the node
    static const int CONFIG = 4;

    /// something that can never happen
    static const int NEVER = 5;

    static const List<String> names = const [
        'none',
        'list',
        'read',
        'write',
        'config',
        'never'
    ];
static const Map<String, int> nameParser = const {
  'none': NONE,
  'list': LIST,
  'read': READ,
  'write': WRITE,
  'config': CONFIG,
  'never': NEVER
};

static int parse(Object obj, [int defaultVal = NEVER]) {
  if (obj is String && nameParser.containsKey(obj)) {
    return nameParser[obj];
  }
  return defaultVal;
}

class PermissionList {
  Map<String, int> idMatchs = {};
  Map<String, int> groupMatchs = {};
  int defaultPermission = Permission.NONE;

  void updatePermissions(List data) {
    idMatchs.clear();
    groupMatchs.clear();
    defaultPermission = Permission.NONE;
    for (Object obj in data) {
      if (obj is Map) {
        if (obj['id'] is String) {
          idMatchs[obj['id']] = Permission.nameParser[obj['permission']];
        } else if (obj['group'] is String) {
          if (obj['group'] == 'default') {
            defaultPermission = Permission.nameParser[obj['permission']];
          } else {
            groupMatchs[obj['group']] = Permission.nameParser[obj['permission']];
          }
        }
      }
    }
  }

  bool _FORCE_CONFIG = true;

  int getPermission(Responder responder) {
    // TODO Permission temp workaround before user permission is implemented
    if (_FORCE_CONFIG) {
      return defaultPermission;
    }
  }
}
return Permission.CONFIG;
}
if (idMatchs.containsKey(responder.reqId)) {
    return idMatchs[responder.reqId];
}

int rslt = Permission.NEVER;
for (String group in responder.groups) {
    if (groupMatchs.containsKey(group)) {
        int v = groupMatchs[group];
        if (v < rslt) {
            // choose the lowest permission from all matched group
            rslt = v;
        }
    }
}

if (rslt == Permission.NEVER) {
    return defaultPermission;
}
return rslt;
}
```
Open Source Used In Edge and Fog Processing Module 1.6.0

452
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2014, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2015, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

```

The MIT License (MIT)

Open Source Used In Edge and Fog Processing Module 1.6.0
458
Copyright (c) 2014 Dan Ellis

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2014 DGLogik Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2000-2013 The Legion Of The Bouncy Castle (http://www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial
portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The cipher library is dually licensed under "GNU LESSER GENERAL PUBLIC LICENSE 3.0" and "Mozilla Public License 2.0".

Initially the project was just released under LGPL 3.0 but due to the way dart2js works, it was necessary to license it under MPL 2.0. This is because LGPL 3.0 forces developers of closed source applications to provide some way to let the final user change the LGPL library by a different implementation which is impossible due to dart2js not supporting dynamic linking.

With MPL 2.0 the library can be compiled with dart2js and mixed with closed source without violating the license. The good thing is that, even with that possibility, modifications to any source file belonging to cipher library must be made available under MPL 2.0 and contributed to the original project so they will still remain free.

Following are the contents of both licenses.

==================================================================================
==================
==================================================================================
==================
==================================================================================
==================
GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.
0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or
b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.
1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version.
Mozilla Public License Version 2.0

1. Definitions

1.1. "Contributor"
means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version"
means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
means Covered Software of a particular Contributor.

1.4. "Covered Software"
means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

(a) that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of
version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"
means any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"
means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that
controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions
----------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients’ rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is" basis, *
*  without warranty of any kind, either expressed, implied, or         *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*                                                                      *
************************************************************************
* quality and performance of the Covered Software is with You.  *
* Should any Covered Software prove defective in any respect, You  *
* (not any Contributor) assume the cost of any necessary servicing, *
* repair, or correction. This disclaimer of warranty constitutes an *
* essential part of this License. No use of any Covered Software is *
* authorized under this License except under this disclaimer. *
*
************************************************************************
************************************************************************
************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any          *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,        *
*  special, incidental, or consequential damages of any character     *
*  including, without limitation, damages for lost profits, loss of   *
*  goodwill, work stoppage, computer failure or malfunction, or any   *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                   *
*                                                                      *
************************************************************************
8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
-------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.
You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

/*
 * Copyright (c) 2003-2005 Tom Wu
 * Copyright (c) 2012 Adam Singer (adam@solvr.io)
 * All Rights Reserved.
 *
 * Permission is hereby granted, free of charge, to any person obtaining
 * a copy of this software and associated documentation files (the
 * "Software"), to deal in the Software without restriction, including
 * without limitation the rights to use, copy, modify, merge, publish,
 * distribute, sublicense, and/or sell copies of the Software, and to
 * permit persons to whom the Software is furnished to do so, subject to
 * the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS, IMPLIED OR OTHERWISE, INCLUDING WITHOUT LIMITATION, ANY
 * WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
 *
 * IN NO EVENT SHALL TOM WU BE LIABLE FOR ANY SPECIAL, INCIDENTAL,
 * INDIRECT OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR ANY DAMAGES WHATSOEVER
 * RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER OR NOT ADVISED OF
 * THE POSSIBILITY OF DAMAGE, AND ON ANY THEORY OF LIABILITY, ARISING OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 *
 * In addition, the following condition applies:
 *
 * All redistributions must retain an intact copy of this copyright notice
 * and disclaimer.
 */

// Copyright (c) 2012, the Dart project authors. Please see the AUTHORS file
// for details. All rights reserved. Use of this source code is governed by a
End User License Agreement

(Agreement) is entered into as of the date the I Agree button is clicked
(Effective Date) between DGLogik, Inc. (DGLogik), as licensor, and (you or Licensee) as licensee.

A. DGLogik has developed a standardized architecture and related software for visualization (the "DGLux Framework") and related documentation available in printed, electronic and/or online form (Documentation).

B. DGLogik is willing to provide a limited end user license to the DGLux Framework and Documentation upon the terms and conditions set forth herein.

1. LICENSE GRANTS AND RESTRICTIONS.

1.1 DGLux Framework. Subject to the terms and conditions contained herein, the Licensor hereby grants you a non-transferable, non-exclusive, limited license (License) to install, use and execute the DGLux Framework, on a single server, which is identified by a discrete HostID number or other means during the installation process (the "Designated System"), and to use the Documentation in connection therewith, solely for your internal business use. During the installation/implementation process, you will receive (via email or by other means specified by the Licensor) license file to be installed on one server in the Designated System, which files are required for the DGLux Framework to operate. In the event that operation of the DGLux Framework is desired on more than one server in the Designated System, you will be provided with license files to be installed on each additional required server within the Designated System. Upon representation by you to the Licensor that the Designated System is either inoperative or unavailable due to regularly scheduled maintenance issuance, you may transfer the DGLux Framework to a backup computer system you own or lease (Backup System) and use it thereon, and the Licensor will provide you with the necessary files to effect such transfer. Upon restoration of the Designated System to proper functionality, use of the DGLux Framework on the Backup System must cease and the DGLux Framework must be completely removed from the Backup System unless the Licensor provides written consent permitting continued installation on the Backup System.

1.2 Limited Sublicense Rights. You will be permitted to set up sub-user accounts within the DGLux Framework pursuant to which you may allow third party tenants and other sub-users access to certain data available within the DGLux Framework. You may allow sub-users to access only information that is directly relevant to such sub-user and not to specific information related to other persons (such as, for example, detailed data directly related to individual suites occupied by unrelated tenants within a building monitored by the DGLux Framework). Each database screen made available for access to a sub-user is referred to herein as a Saved Dashboard. You may charge sub-users reasonable fees for access to Saved Dashboards. No sublicense rights other than as expressly stated above are permitted hereunder.

1.3 No Other Rights Granted. Apart from the License and the rights expressly granted in Sections 1.1 and 1.2 above, no license or other right is granted by DGLogik to you under this Agreement, either directly or by implication, estoppel, or otherwise (including, but not limited to, the right to prepare derivative works). You shall have no right or access to the source code of the DGLux Framework other than the source code, if any, for certain application program interfaces that are included with the DGLux Framework. If any source code is included with the DGLux Framework, it is provided solely as a reference, is provided subject to all of the limitations of Section 2 below, and may not be modified by you in any way. You shall have no right to use the DGLux Framework to operate or control any system, or component of any system, of any third party.

2. YOUR RESPONSIBILITIES.
YOU SHALL NOT MODIFY, DECOMPILE, DISASSEMBLE, DECRYPT, EXTRACT, OR OTHERWISE REVERSE ENGINEER THE DGLUX FRAMEWORK OR ANY PART THEREOF, OR ANY APPLICATION ENABLER, OR GRANT ANY OTHER PERSON OR ENTITY THE RIGHT TO DO SO OR TAKE ANY ACTION THAT WOULD ASSIST ANY OTHER PERSON OR ENTITY IN DOING SO. YOU WILL PROMPTLY NOTIFY THE LICENSOR OF ANY ATTEMPT BY ANY OTHER PERSON OR ENTITY TO COPY, REVERSE ENGINEER, DISASSEMBLE, DECOMPILE, TRANSLATE OR MODIFY THE DGLUX FRAMEWORK OR DOCUMENTATION. WITHOUT LIMITING THE FOREGOING, YOU SHALL NOT (I) INSERT, DELETE, REPLACE, CHANGE OR OTHERWISE ALTER ANY FILES IN THE DGLUX FRAMEWORK OR APPLICATION ENABLER; (II) MODIFY, CHANGE, PREPARE DERIVATIVE WORKS OF OR OTHERWISE ALTER ANY BINARY CODE FILES INCLUDED WITH THE DGLUX FRAMEWORK; (III) LOAN, RENT, LEASE, GIVE, SUBLICENSE, TRANSFER, PUBLISH, DISCLOSE, DISPLAY, OR OTHERWISE MAKE AVAILABLE THE DGLUX FRAMEWORK OR DOCUMENTATION, IN WHOLE OR IN PART, TO ANY OTHER PERSON OR ENTITY; (IV) MODIFY ANY APPLICATION PROGRAMMING INTERFACE, INCLUDING MODIFYING ANY APPLICATION PROGRAMMING INTERFACE BY CREATING ADDITIONAL CLASSES WITHIN ANY INTERFACE OR OTHERWISE CAUSING THE ADDITION TO OR MODIFICATION OF THE CLASSES IN AN INTERFACE, AND (V) INCORPORATE ANY CODE INCLUDED WITH THE DGLUX FRAMEWORK OR ANY DOCUMENTATION IN ANY DEVELOPER PRODUCT. YOU SHALL USE ALL COMMERCIALLY REASONABLE EFFORTS TO ENSURE THAT YOUR EMPLOYEES COMPLY WITH THE TERMS OF THIS AGREEMENT.

3. TECHNICAL SUPPORT. The Licensor shall have no obligation of any kind to provide technical support with respect to the DGLux Framework except as provided in a separate support agreement between you and the Licensor.

4. LICENSE FEES; PAYMENT.

4.1 Fees. The License Fees paid by or for you to the Licensor is paid in consideration of the licenses granted under this Agreement.

4.2 Payment. One hundred percent (100%) of the applicable License Fees are due and payable upon installation of the DGLux Framework on the Designated System. The Licensor shall provide an invoice for each amount due for your records, but no invoice date shall alter the payment due dates specified above. Fees payable under this Agreement are not subject to reduction or set off for any costs, expenses or liabilities incurred by you. Failure to timely pay License Fees may result in termination of the License in accordance with Section 9 below, or in the discretion of the Licensor, imposition of a finance charge equal to three percent (3%) of the past due payment.

4.3 Taxes. You shall pay any and all sales, use, excise, or other taxes (except taxes imposed on the Licensor's income) levied or imposed by any governmental entity or agency on or on account of the provision of the License hereunder. In the event that the Licensor is required to pay any of such taxes, you agree to promptly reimburse the Licensor for such taxes in the amount paid by the Licensor upon receipt of documentation evidencing the requirement and payment.

5. OWNERSHIP AND CONFIDENTIALITY.

5.1 Ownership by Licensor. As between you and the Licensor, the Licensor retains all right, title and interest, in and
to the DGLux Framework, the Documentation, and any portion of either. You shall not have any right, title, or interest to the DGLux Framework or Documentation except as expressly provided in this Agreement, and further shall secure and protect the DGLux Framework and Documentation as set forth herein consistent with maintenance of the Licensor’s proprietary rights therein. You agree that you shall not contest or challenge, or take any action inconsistent with or that may damage or impair (i) the Licensor’s ownership or rights in the DGLux Framework and Documentation, or (ii) the rights of any third party that has licensed intellectual property rights to the Licensor for use in connection with the DGLux Framework. You shall use the DGLux Framework and Documentation only as expressly authorized in this Agreement.

5.2 Confidentiality. You acknowledge that the DGLux Framework and Documentation contain valuable trade secrets of the Licensor and you agree to maintain the confidentiality of the DGLux Framework and Documentation using at least a commercially reasonable standard of care for confidential information but not less than the same degree of care you use with your own confidential information.

6. WARRANTIES AND LIMITATIONS.

6.1 Disclaimer of Software Warranty. THE LICENSE OF THE DGLUX FRAMEWORK AND DOCUMENTATION IS MADE "AS IS," WITH NO EXPRESS OR IMPLIED WARRANTY OF ANY KIND. DGLOGIK SPECIFICALLY DISCLAIMS ALL INDIRECT OR IMPLIED WARRANTIES TO THE FULL EXTENT ALLOWED BY APPLICABLE LAW, INCLUDING WITHOUT LIMITATION ALL IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY, TITLE, OR FITNESS FOR ANY PARTICULAR PURPOSE. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY DGLOGIK, AND THE RESPECTIVE AGENTS OR EMPLOYEES, SHALL CREATE A WARRANTY.

6.2 Limitation of Liability. NEITHER THE LICENSOR NOR ANY OF THE RESPECTIVE OFFICERS, EMPLOYEES, AGENTS, REPRESENTATIVES OF THE LICENSOR SHALL BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES OR PENALTIES (INCLUDING DAMAGES FOR LOST PROFITS, LOST BUSINESS, PERSONAL INJURY, LOST DATA, BUSINESS INTERRUPTION, AND THE LIKE), HOWEVER ANY SUCH LOSS ARISES, WHETHER FOR BREACH OR IN TORT, EVEN IF THE LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

There can be no assurances whatsoever that data visualization systems such as the DGLux Framework will protect any individual or his or her property from harm. Appropriate safety precautions must always be taken when operating or maintaining equipment connected to the DGLux Framework. Without limiting anything else set forth in this Section 6, (i) the Licensor assumes no responsibility or liability for any injury or damage to any persons or property resulting from the use of the DGLux Framework, and (ii) the Licensor expressly disclaims any express or implied warranty or condition of fitness for High-Risk Applications (as defined in Section 7 below).

6.3 Limitation of Remedies. IN NO EVENT SHALL LICENSORS MONETARY LIABILITY TO YOU FOR CLAIMS ARISING UNDER THIS AGREEMENT EXCEED THE AMOUNTS PAID BY YOU TO THE LICENSOR FOR THE LICENSE PROVIDED IN SECTION 1.1 ABOVE. THE EXISTENCE OF ONE OR MORE CLAIMS WILL NOT ENLARGE THIS LIMIT.

7. ASSURANCES BY YOU.

You represent and warrant to the Licensor that you will take appropriate precautions, establish appropriate procedures, and post appropriate notices to ensure that persons and property are not harmed in the event of an error, malfunction or unexpected operation of the DGLux Framework. Unless the Licensor has provided the express
written consent in every instance, you will use your best efforts to ensure that no component of the DGLux Framework is used in any application in which the failure of the DGLux Framework could lead to death, personal injury or severe physical or property damage, including, without limitation, environmental damage (collectively, "High-Risk Applications"), including but not limited to the operation of nuclear facilities, mass transit systems, aircraft navigation or aircraft communication systems, air traffic control, weapon systems, and direct life support machines. Further, by executing this agreement, you represent and warrant that all consents, approval or authorizations of third parties, foreign ministries, or any governmental entities or agencies required as a condition or otherwise necessary for you to enter into and perform its obligations under this Agreement have been duly obtained.

8. INDEMNIFICATION. You shall indemnify and hold harmless the Licensor from and against all losses, claims, damages or other causes of any nature or kind whatsoever (including reasonable attorney's fees) arising directly or indirectly out of third party claims concerning (i) a breach of any of your obligations, covenants, representations or warranties contained herein; (ii) your selection of, or transactions or agreements with, any party that is an authorized DGLogik reseller or distributor, systems integrator, or trainer, or any other third party; (iii) any product developed by you using the DGLux Framework or Documentation; (iv) any combination of the DGLux Framework, or any component of it, with any product developed by you using the DGLux Framework or Documentation or with any other product, equipment, device, software, system or data not supplied by the Licensor, and (v) the negligence or intentional misconduct of you or your officers, employees, agents or contractors. You agree not to interpose any cross-claim, third party claim, or similar claim against DGLogik based on a claim, suit, action, or proceeding threatened or commenced against you related to the DGLux Framework or Documentation and arising out of any matter other than a matter, if any, for which the Licensor has agreed to indemnify you under a separate agreement signed by DGLogik.

9. TERM AND TERMINATION. This Agreement is effective as of the Effective Date and shall continue until terminated. You may terminate this Agreement at any time upon written notice and the return of the DGLux Framework, Documentation and all copies and extracts of either to the Licensor. The Licensor may terminate this Agreement upon your material or continuing breach of this Agreement by giving you ten (10) days prior written notice stating the cause of termination, with such termination becoming effective at the close of said 10-day term if the breach is not then cured to the satisfaction of the Licensor. If cure is effected and accepted, the Licensor will provide you with written notice of reinstatement. In the event any foreign ministry or other governmental entity or agency makes any changes, deletions or modifications to this Agreement, holds any provision herein unenforceable, or imposes any conditions or restrictions on either party to this Agreement which affects its ability to fully perform, the Licensor shall have the right to immediately terminate this Agreement.

10. TRADEMARKS. Under no circumstances may you use the DGLux trademark or any other trademark or service mark of DGLogik to identify goods or services provided by you, or for any other reason, except with the express written consent of DGLogik. You shall not remove, deface or change any Licensor trademark or service mark or any notices or designations related thereto.

11. GENERAL TERMS.

11.1 Assignment. You may assign this Agreement or your rights and obligations under this Agreement to a purchaser of the hardware on which the software is installed, provided (i) you provide the purchaser with a copy of this Agreement and (ii) the purchaser agrees in writing to comply with all of the terms and conditions of this Agreement. The Licensor may assign this Agreement without your consent.
11.2 Export. Software, including technical data, is subject to U.S. export control laws, including the U.S. Export Administration Act and its associated regulations, and may be subject to export or import regulations in other countries. You agree to comply strictly with all such regulations and acknowledge that you have the responsibility to obtain the necessary licenses to export, re-export, or import the DGLux Framework or Documentation. The DGLux Framework and Documentation may not be used, sold, resold, sublicensed, diverted, transferred, reshipped, or otherwise exported or re-exported: (i) in, into or through any country designated as a terrorist supporting country by the U.S. government or any of its agencies; (ii) in, into or through any country for which the U.S. has an embargo or with which the U.S. or any of its agencies maintains comprehensive trade controls; (iii) to or by a national or resident of the countries described in (i) or (ii); or (iv) to or by any party included in the United States Department of Commerce's Denied Persons List, Entity List or Unverified List; or the United States Department of the Treasury's Specially Designated Nationals, Specially Designated Global Terrorists, Specially Designated Narcotics Traffickers, Specially Designated Narcotic Traffickers, or Specially Designated Terrorists List; or the United States Department of State's Designated Foreign Terrorist Organizations or Debarred Persons List; or is otherwise designated by the U.S. government or any of its agencies as a party with which it is unlawful to do business.<br>

11.3 Equitable Relief. You acknowledge that any breach of your obligations hereunder with respect to the DGLux Framework, the Documentation, or the confidential information of the Licensor, including Section 5.1 and 5.2 above, will cause the Licensor irreparable injury for which it has no adequate remedy at law. You further agree that the Licensor will be entitled to seek equitable relief, including preliminary injunctions and temporary restraining orders, to prevent any unauthorized use of the DGLux Framework, Documentation, or other confidential information of the Licensor, without posting of bond or other security, in addition to all other remedies available to it under this Agreement or other applicable law.<br>

11.4 Entire Agreement. This Agreement comprises the entire agreement between the parties relating to its subject matter. All Schedules and Exhibits to this Agreement, whether presently contemplated or executed in the future, are integral parts of this Agreement and are incorporated herein by reference. This Agreement supersedes all prior agreements and understandings, written or oral, express or implied. This Agreement can be amended or modified only by a writing executed in advance by duly authorized representatives of each of the parties hereto. Each party agrees that it has negotiated and reviewed this Agreement and that any rule of construction or interpretation requiring resolution of any ambiguities in this Agreement against the drafting party shall not apply in the construction or interpretation of this Agreement. Use of the term including in this Agreement or any schedule or exhibit hereto shall be deemed to mean including but not limited to. The headings in this Agreement are for convenience only and shall have no effect on its interpretation. This Agreement may be executed in counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same Agreement. This Agreement shall be enforceable upon your acceptance by clicking the I Agree button.<br>

11.5 Waiver. No waiver by either party of any of the rights pursuant to this Agreement shall be effective unless set forth in a writing delivered to the other party. No course of dealing, delay in exercising any right, power, or remedy, acceptance of payments, late charges, or performance from a party when that party is in default, or enforcement of any remedy shall operate as a waiver or otherwise prejudice a parties rights, powers, or remedies pursuant to this Agreement. All rights and remedies of the parties pursuant to this Agreement shall be cumulative and none shall exclude any other right or remedy given by this Agreement or by law.<br>

11.6 Governing Law; Choice of Venue. The validity of this Agreement and the rights, obligations and relations of the parties hereunder shall be construed and determined under and in accordance with the substantive laws of the State of California with respect to claims governed by state law and the laws of the United States with respect to claims arising under the laws of the United States, without regard to conflicts of laws principles and excluding the Convention on Contracts for the International Sale of Goods. Any action arising from or relating to this Agreement
or the conduct of the parties pursuant hereto shall be commenced and heard solely within the federal and state courts in San Francisco, California. The parties hereby consent to the service of process in any such action by registered mail, return receipt requested, or by any other means provided by law.

11.7 Severability. Subject to the Licensors rights under Section 9 above, should any term or provision of this Agreement be finally determined by a court of competent jurisdiction to be void, invalid, unenforceable or contrary to law or equity, the offending term shall be modified and limited (or if strictly necessary, deleted) only to the extent required to conform to the requirements of law and the remainder of this Agreement (or, as the case may be, the application of such provisions to other circumstances) shall not be affected thereby but rather shall be enforced to the greatest extent permitted by law.

11.8 Survival. Any provision of this Agreement which contemplates performance subsequent to the expiration or earlier termination of this Agreement, or which expressly states that it shall survive termination of the Agreement, shall so survive such expiration or termination and shall continue in full force and effect until fully satisfied.

11.9 Government Use. The DGLux Framework is provided with restricted rights. With respect to any acquisition of the DGLux Framework by or for any unit or agency of the U.S. Government ("Government"), the DGLux Framework shall be classified as "Commercial Computer Software," as that term is defined in the applicable provisions of the Federal Acquisition Regulation ("FAR") and supplements thereto, including the Department of Defense (DoD) FAR Supplement ("DFARS"). If the DGLux Framework is supplied for use by DoD, the DGLux Framework is delivered subject to the terms of this Agreement and either (i) in accordance with DFARS 252.227-7202-1(a) and 227.7202-3(a), or (ii) with restricted rights in accordance with DFARS 252.227 7013(c)(1)(ii), as applicable. If the DGLux Framework is supplied for use by a federal agency other than DoD, the DGLux Framework is restricted computer software delivered subject to the terms of this Agreement and (i) FAR 52.227-19; or (ii) FAR 52.227-14 (ALT III), as applicable.

DGLogik has caused this Agreement to be executed as of the date the I agree button is clicked.

Copyright (c) 2010, Ajax.org B.V.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Ajax.org B.V. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL AJAX.ORG B.V. BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The MIT License (MIT)

Copyright (c) 2014

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "["] replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.
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.

## Licensing

Jackson core and extension components may licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (http://fasterxml.com).

## Credits

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

<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>request_license</title>
<link href='https://fonts.googleapis.com/css?family=Open+Sans:400,300,600' rel='stylesheet' type='text/css'>
</head>
<style>
body {
    background-color: #5a5c62;
    font-family: 'Open Sans', sans-serif;
}
#container {
    width: 530px;
    min-height: 760px;
    background-color: #fff;
    border-radius: 10px;
    padding-bottom: 20px;
    margin: 0 auto;
    margin-top: 100px;
}
.center-position {
    position: absolute;
    top: 0;
    left: 0;
    bottom: 0;
    right: 0;
    margin: auto;
}
Open Source Used In Edge and Fog Processing Module 1.6.0

487
This page is used to request DGLux5 viewer only license, if you need a designer license, please request the license from designer.
DGLux End User License Agreement<br>
<br>
End User License Agreement (Agreement) is entered into as of the date the I Agree button is clicked (Effective Date) between DGLogik, Inc. (DGLogik), as licensor, and (you or Licensee) as licensee.<br>
<br>
A. DGLogik has developed a standardized architecture and related software for visualization (the "DGLux Framework") and related documentation available in printed, electronic and/or online form (Documentation).<br>

B. DGLogik is willing to provide a limited end user license to the DGLux Framework and Documentation upon the terms and conditions set forth herein.<br>
<br>
1. LICENSE GRANTS AND RESTRICTIONS.<br>
<br>
1.1 DGLux Framework. Subject to the terms and conditions contained herein, the Licensor hereby grants you a non-transferable, non-exclusive, limited license (License) to install, use and execute the DGLux Framework, on a single server, which is identified by a discrete HostID number or other means during the installation process (the "Designated System"), and to use the Documentation in connection therewith, solely for your internal business use. During the installation/implementation process, you will receive (via email or by other means specified by the Licensor) license file to be installed on one server in the Designated System, which files are required for the DGLux Framework to operate. In the event that operation of the DGLux Framework is desired on more than one server in the Designated System, you will be provided with license files to be installed on each additional required server within the Designated System. Upon representation by you to the Licensor that the Designated System is either inoperative or unavailable due to regularly scheduled maintenance issuance, you may transfer the DGLux Framework to a backup computer system you own or lease (Backup System) and use it thereon, and the Licensor will provide you with the necessary files to effect such transfer. Upon restoration of the Designated System to proper functionality, use of the DGLux Framework on the Backup System must cease and the DGLux Framework must be completely removed from the Backup System unless the Licensor provides written consent permitting continued installation on the Backup System.<br>

1.2 Limited Sublicense Rights. You will be permitted to set up sub-user accounts within the DGLux Framework pursuant to which you may allow third party tenants and other sub-users access to certain data available within the DGLux Framework. You may allow sub-users to access only information that is directly relevant to such sub-user and not to specific information related to other persons (such as, for example, detailed data directly related to individual suites occupied by unrelated tenants within a building monitored by the DGLux Framework). Each database screen made available for access to a sub-user is referred to herein as a Saved Dashboard. You may charge sub-users reasonable fees for access to Saved Dashboards. No sublicense rights other than as expressly stated above...
1.3 No Other Rights Granted. Apart from the License and the rights expressly granted in Sections 1.1 and 1.2 above, no license or other right is granted by DGLogik to you under this Agreement, either directly or by implication, estoppel, or otherwise (including, but not limited to, the right to prepare derivative works). You shall have no right or access to the source code of the DGLux Framework other than the source code, if any, for certain application program interfaces that are included with the DGLux Framework. If any source code is included with the DGLux Framework, it is provided solely as a reference, is provided subject to all of the limitations of Section 2 below, and may not be modified by you in any way. You shall have no right to use the DGLux Framework to operate or control any system, or component of any system, of any third party.

2. YOUR RESPONSIBILITIES.

YOU SHALL NOT MODIFY, DECOMPILE, DISASSEMBLE, DECRYPT, EXTRACT, OR OTHERWISE REVERSE ENGINEER THE DGLUX FRAMEWORK OR ANY PART THEREOF, OR ANY APPLICATION ENABLER, OR GRANT ANY OTHER PERSON OR ENTITY THE RIGHT TO DO SO OR TAKE ANY ACTION THAT WOULD ASSIST ANY OTHER PERSON OR ENTITY IN DOING SO. YOU WILL PROMPTLY NOTIFY THE LICENSOR OF ANY ATTEMPT BY ANY OTHER PERSON OR ENTITY TO COPY, REVERSE ENGINEER, DISASSEMBLE, DECOMPILE, TRANSLATE OR MODIFY THE DGLUX FRAMEWORK OR DOCUMENTATION. WITHOUT LIMITING THE FOREGOING, YOU SHALL NOT (I) INSERT, DELETE, REPLACE, CHANGE OR OTHERWISE ALTER ANY FILES IN THE DGLUX FRAMEWORK OR APPLICATION ENABLER; (II) MODIFY, CHANGE, PREPARE DERIVATIVE WORKS OF OR OTHERWISE ALTER ANY BINARY CODE FILES INCLUDED WITH THE DGLUX FRAMEWORK; (III) LOAN, RENT, LEASE, GIVE, SUBLICENSE, TRANSFER, PUBLISH, DISCLOSE, DISPLAY, OR OTHERWISE MAKE AVAILABLE THE DGLUX FRAMEWORK OR DOCUMENTATION, IN WHOLE OR IN PART, TO ANY OTHER PERSON OR ENTITY; (IV) MODIFY ANY APPLICATION PROGRAMMING INTERFACE, INCLUDING MODIFYING ANY APPLICATION PROGRAMMING INTERFACE BY CREATING ADDITIONAL CLASSES WITHIN ANY INTERFACE OR OTHERWISE CAUSING THE ADDITION TO OR MODIFICATION OF THE CLASSES IN AN INTERFACE, AND (V) INCORPORATE ANY CODE INCLUDED WITH THE DGLUX FRAMEWORK OR ANY DOCUMENTATION IN ANY DEVELOPER PRODUCT. YOU SHALL USE ALL COMMERCIALLY REASONABLE EFFORTS TO ENSURE THAT YOUR EMPLOYEES COMPLY WITH THE TERMS OF THIS AGREEMENT.

3. TECHNICAL SUPPORT. The Licensor shall have no obligation of any kind to provide technical support with respect to the DGLux Framework except as provided in a separate support agreement between you and the Licensor.

4. LICENSE FEES; PAYMENT.

4.1 Fees. The License Fees paid by or for you to the Licensor is paid in consideration of the licenses granted under this Agreement.

4.2 Payment. One hundred percent (100%) of the applicable License Fees are due and payable upon installation of the DGLux Framework on the Designated System. The Licensor shall provide an invoice for each amount due for your records, but no invoice date shall alter the payment due dates specified above. Fees payable under this Agreement are not subject to reduction or set off for any costs, expenses or liabilities incurred by you. Failure to timely pay License Fees may result in termination of the License in accordance with Section 9 below, or in the
discretion of the Licensor, imposition of a finance charge equal to three percent (3%) of the past due payment.<br>

4.3 Taxes. You shall pay any and all sales, use, excise, or other taxes (except taxes imposed on the Licensor's income) levied or imposed by any governmental entity or agency on or on account of the provision of the License hereunder. In the event that the Licensor is required to pay any of such taxes, you agree to promptly reimburse the Licensor for such taxes in the amount paid by the Licensor upon receipt of documentation evidencing the requirement and payment.<br>

5. OWNERSHIP AND CONFIDENTIALITY.<br>

5.1 Ownership by Licensor. As between you and the Licensor, the Licensor retains all right, title and interest, in and to the DGLux Framework, the Documentation, and any portion of either. You shall not have any right, title, or interest to the DGLux Framework or Documentation except as expressly provided in this Agreement, and further shall secure and protect the DGLux Framework and Documentation as set forth herein consistent with maintenance of the Licensor's proprietary rights therein. You agree that you shall not contest or challenge, or take any action inconsistent with or that may damage or impair (i) the Licensor's ownership or rights in the DGLux Framework and Documentation, or (ii) the rights of any third party that has licensed intellectual property rights to the Licensor for use in connection with the DGLux Framework. You shall use the DGLux Framework and Documentation only as expressly authorized in this Agreement.<br>

5.2 Confidentiality. You acknowledge that the DGLux Framework and Documentation contain valuable trade secrets of the Licensor and you agree to maintain the confidentiality of the DGLux Framework and Documentation using at least a commercially reasonable standard of care for confidential information but not less than the same degree of care you use with your own confidential information.<br>

6. WARRANTIES AND LIMITATIONS.<br>

6.1 Disclaimer of Software Warranty. THE LICENSE OF THE DGLUX FRAMEWORK AND DOCUMENTATION IS MADE "AS IS," WITH NO EXPRESS OR IMPLIED WARRANTY OF ANY KIND. DGLOGIK SPECIFICALLY DISCLAIMS ALL INDIRECT OR IMPLIED WARRANTIES TO THE FULL EXTENT ALLOWED BY APPLICABLE LAW, INCLUDING WITHOUT LIMITATION ALL IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY, TITLE, OR FITNESS FOR ANY PARTICULAR PURPOSE. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY DGLOGIK, AND THE RESPECTIVE AGENTS OR EMPLOYEES, SHALL CREATE A WARRANTY.<br>

6.2 Limitation of Liability. NEITHER THE LICENSOR NOR ANY OF THE RESPECTIVE OFFICERS, EMPLOYEES, AGENTS, REPRESENTATIVES OF THE LICENSOR SHALL BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES OR PENALTIES (INCLUDING DAMAGES FOR LOST PROFITS, LOST BUSINESS, PERSONAL INJURY, LOST DATA, BUSINESS INTERRUPTION, AND THE LIKE), HOWEVER ANY SUCH LOSS ARISES, WHETHER FOR BREACH OR IN TORT, EVEN IF THE LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.<br>

There can be no assurances whatsoever that data visualization systems such as the DGLux Framework will protect any individual or his or her property from harm. Appropriate safety precautions must always be taken when operating or maintaining equipment connected to the DGLux Framework. Without limiting anything else set forth in this Section 6, (i) the Licensor assumes no responsibility or liability for any injury or damage to any persons or
property resulting from the use of the DGLux Framework, and (ii) the Licensor expressly disclaims any express or implied warranty or condition of fitness for High-Risk Applications (as defined in Section 7 below).<br>

6.3 Limitation of Remedies. IN NO EVENT SHALL LICENSORS MONETARY LIABILITY TO YOU FOR CLAIMS ARISING UNDER THIS AGREEMENT EXCEED THE AMOUNTS PAID BY YOU TO THE LICENSOR FOR THE LICENSE PROVIDED IN SECTION 1.1 ABOVE. THE EXISTENCE OF ONE OR MORE CLAIMS WILL NOT ENLARGE THIS LIMIT.<br>

7. ASSURANCES BY YOU.<br>
You represent and warrant to the Licensor that you will take appropriate precautions, establish appropriate procedures, and post appropriate notices to ensure that persons and property are not harmed in the event of an error, malfunction or unexpected operation of the DGLux Framework. Unless the Licensor has provided the express written consent in every instance, you will use your best efforts to ensure that no component of the DGLux Framework is used in any application in which the failure of the DGLux Framework could lead to death, personal injury or severe physical or property damage, including, without limitation, environmental damage (collectively, "High-Risk Applications"), including but not limited to the operation of nuclear facilities, mass transit systems, aircraft navigation or aircraft communication systems, air traffic control, weapon systems, and direct life support machines. Further, by executing this agreement, you represent and warrant that all consents, approval or authorizations of third parties, foreign ministries, or any governmental entities or agencies required as a condition or otherwise necessary for you to enter into and perform its obligations under this Agreement have been duly obtained.<br>

8. INDEMNIFICATION. You shall indemnify and hold harmless the Licensor from and against all losses, claims, damages or other causes of any nature or kind whatsoever (including reasonable attorney's fees) arising directly or indirectly out of third party claims concerning (i) a breach of any of your obligations, covenants, representations or warranties contained herein; (ii) your selection of, or transactions or agreements with, any party that is an authorized DGLogik reseller or distributor, systems integrator, or trainer, or any other third party; (iii) any product developed by you using the DGLux Framework or Documentation; (iv) any combination of the DGLux Framework, or any component of it, with any product developed by you using the DGLux Framework or Documentation or with any other product, equipment, device, software, system or data not supplied by the Licensor, and (v) the negligence or intentional misconduct of you or your officers, employees, agents or contractors. You agree not to interpose any cross-claim, third party claim, or similar claim against DGLogik based on a claim, suit, action, or proceeding threatened or commenced against you related to the DGLux Framework or Documentation and arising out of any matter other than a matter, if any, for which the Licensor has agreed to indemnify you under a separate agreement signed by DGLogik.<br>

9. TERM AND TERMINATION. This Agreement is effective as of the Effective Date and shall continue until terminated. You may terminate this Agreement at any time upon written notice and the return of the DGLux Framework, Documentation and all copies and extracts of either to the Licensor. The Licensor may terminate this Agreement upon your material or continuing breach of this Agreement by giving you ten (10) days prior written notice stating the cause of termination, with such termination becoming effective at the close of said 10-day term if the breach is not then cured to the satisfaction of the Licensor. If cure is effected and accepted, the Licensor will provide you with written notice of reinstatement. In the event any foreign ministry or other governmental entity or agency makes any changes, deletions or modifications to this Agreement, holds any provision herein unenforceable, or imposes any conditions or restrictions on either party to this Agreement which affects its ability to fully perform, the Licensor shall have the right to immediately terminate this Agreement.<br>

10. TRADEMARKS. Under no circumstances may you use the DGLux trademark or any other trademark or service
mark of DGLogik to identify goods or services provided by you, or for any other reason, except with the express written consent of DGLogik. You shall not remove, deface or change any Licensor trademark or service mark or any notices or designations related thereto.<br>

11. GENERAL TERMS.<br>

11.1 Assignment. You may assign this Agreement or your rights and obligations under this Agreement to a purchaser of the hardware on which the software is installed, provided (i) you provide the purchaser with a copy of this Agreement and (ii) the purchaser agrees in writing to comply with all of the terms and conditions of this Agreement. The Licensor may assign this Agreement without your consent.<br>

11.2 Export. Software, including technical data, is subject to U.S. export control laws, including the U.S. Export Administration Act and its associated regulations, and may be subject to export or import regulations in other countries. You agree to comply strictly with all such regulations and acknowledge that you have the responsibility to obtain the necessary licenses to export, re-export, or import the DGLux Framework or Documentation. The DGLux Framework and Documentation may not be used, sold, resold, sublicensed, diverted, transferred, reshipped, or otherwise exported or re-exported: (i) in, into or through any country designated as a terrorist supporting country by the U.S. government or any of its agencies; (ii) in, into or through any country for which the U.S. has an embargo or with which the U.S. or any of its agencies maintains comprehensive trade controls; (iii) to or by a national or resident of the countries described in (i) or (ii); or (iv) to or by any party included in the United States Department of Commerce's Denied Persons List, Entity List or Unverified List; or the United States Department of the Treasury's Specially Designated Nationals, Specially Designated Global Terrorists, Specially Designated Narcotics Traffickers, Specially Designated Narcotic Traffickers, or Specially Designated Terrorists List; or the United States Department of State's Designated Foreign Terrorist Organizations or Debarred Persons List; or is otherwise designated by the U.S. government or any of its agencies as a party with which it is unlawful to do business.<br>

11.3 Equitable Relief. You acknowledge that any breach of your obligations hereunder with respect to the DGLux Framework, the Documentation, or the confidential information of the Licensor, including Section 5.1 and 5.2 above, will cause the Licensor irreparable injury for which it has no adequate remedy at law. You further agree that the Licensor will be entitled to seek equitable relief, including preliminary injunctions and temporary restraining orders, to prevent any unauthorized use of the DGLux Framework, Documentation, or other confidential information of the Licensor, without posting of bond or other security, in addition to all other remedies available to it under this Agreement or other applicable law.<br>

11.4 Entire Agreement. This Agreement comprises the entire agreement between the parties relating to its subject matter. All Schedules and Exhibits to this Agreement, whether presently contemplated or executed in the future, are integral parts of this Agreement and are incorporated herein by reference. This Agreement supersedes all prior agreements and understandings, written or oral, express or implied. This Agreement can be amended or modified only by a writing executed in advance by duly authorized representatives of each of the parties hereto. Each party agrees that it has negotiated and reviewed this Agreement and that any rule of construction or interpretation requiring resolution of any ambiguities in this Agreement against the drafting party shall not apply in the construction or interpretation of this Agreement. Use of the term including in this Agreement or any schedule or exhibit hereto shall be deemed to mean including but not limited to. The headings in this Agreement are for convenience only and shall have no effect on its interpretation. This Agreement may be executed in counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same Agreement. This Agreement shall be enforceable upon your acceptance by clicking the I Agree button.
11.5 Waiver. No waiver by either party of any of the rights pursuant to this Agreement shall be effective unless set forth in a writing delivered to the other party. No course of dealing, delay in exercising any right, power, or remedy, acceptance of payments, late charges, or performance from a party when that party is in default, or enforcement of any remedy shall operate as a waiver or otherwise prejudice a party's rights, powers, or remedies pursuant to this Agreement. All rights and remedies of the parties pursuant to this Agreement shall be cumulative and none shall exclude any other right or remedy given by this Agreement or by law.<br>

11.6 Governing Law; Choice of Venue. The validity of this Agreement and the rights, obligations and relations of the parties hereunder shall be construed and determined under and in accordance with the substantive laws of the State of California with respect to claims governed by state law and the laws of the United States with respect to claims arising under the laws of the United States, without regard to conflicts of laws principles and excluding the Convention on Contracts for the International Sale of Goods. Any action arising from or relating to this Agreement or the conduct of the parties pursuant hereto shall be commenced and heard solely within the federal and state courts in San Francisco, California. The parties hereby consent to the service of process in any such action by registered mail, return receipt requested, or by any other means provided by law.<br>

11.7 Severability. Subject to the Licensors rights under Section 9 above, should any term or provision of this Agreement be finally determined by a court of competent jurisdiction to be void, invalid, unenforceable or contrary to law or equity, the offending term shall be modified and limited (or if strictly necessary, deleted) only to the extent required to conform to the requirements of law and the remainder of this Agreement (or, as the case may be, the application of such provisions to other circumstances) shall not be affected thereby but rather shall be enforced to the greatest extent permitted by law.<br>

11.8 Survival. Any provision of this Agreement which contemplates performance subsequent to the expiration or earlier termination of this Agreement, or which expressly states that it shall survive termination of the Agreement, shall so survive such expiration or termination and shall continue in full force and effect until fully satisfied.<br>

11.9 Government Use. The DGLux Framework is provided with restricted rights. With respect to any acquisition of the DGLux Framework by or for any unit or agency of the U.S. Government ("Government"), the DGLux Framework shall be classified as "Commercial Computer Software," as that term is defined in the applicable provisions of the Federal Acquisition Regulation ("FAR") and supplements thereto, including the Department of Defense (DoD) FAR Supplement ("DFARS"). If the DGLux Framework is supplied for use by DoD, the DGLux Framework is delivered subject to the terms of this Agreement and either (i) in accordance with DFARS 252.227-702-1(a) and 227.7202-3(a), or (ii) with restricted rights in accordance with DFARS 252.227 7013(c)(1)(ii), as applicable. If the DGLux Framework is supplied for use by a federal agency other than DoD, the DGLux Framework is restricted computer software delivered subject to the terms of this Agreement and (i) FAR 12.212(a); (ii) FAR 52.227-19; or (iii) FAR 52.227-14 (ALT III), as applicable.<br>

DGLogik has caused this Agreement to be executed as of the date the I agree button is clicked. <br>

---

The MIT License (MIT)

Copyright (c) 2014

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

(function(){var supportsDirectProtoAccess=function(){var z=function{} z.prototype={p:[]} var y=new z() if(!(y.__proto__&&y.__proto__.p===z.prototype.p))return false try{if(typeof navigator!="undefined"&&typeof navigator.userAgent="string"&&navigator.userAgent.indexOf("Chrome")>=0) return true if(typeof version="function"&&version.length==0){var x=version() if(/\d+\.\d+\.\d+/.test(x)) return true} catch(w){} return false}()} function map(a){a=Object.create(null) a.x=0 delete a.x return a} var A=map() var B=map() var C=map() var D=map() var E=map() var F=map() var G=map() var H=map() var J=map() var K=map() var L=map() var M=map() var N=map()
var O=map()
var P=map()
var Q=map()
var R=map()
var S=map()
var T=map()
var U=map()
var V=map()
var W=map()
var X=map()
var Y=map()
var Z=map()

function I(){ } init()
function setupProgram(a,b){"use strict"
function generateAccessor(a9,b0,b1){var g=a9.split("-")
var f=g[0]
var e=f.length
var d=f.charCodeAt(e-1)
var c
if(g.length>1)c=true
else c=false
if(d){var a0=d&3
var a1=d>>2
var a2=f.substring(0,e-1)
var a3=f.indexOf(":"
if(a3>0){a2=a2.split(0,a3)
if(a4=a4=a0&2?"r":""
var a5=a0&1?"this":""
var a6="return "+a5+"."+f
var a7=b1+".prototype.g"+a2+"="
var a8="function(\"+a4\")\{"+a6+\")"
if(c)b0.push(a7+"$reflectable(\"+a8\")\n"
else b0.push(a7+a8+":"\n")
if(a1){var a4=a1&2?"r,v":"v"
var a5=a1&1?"this":""
var a6=a5+"."+f+="v"
var a7=a1+".prototype.s"+a2+"="
var a8="function(\"+a4\")\{"+a6+\")"
if(c)b0.push(a7+"$reflectable(\"+a8\")\n"
else b0.push(a7+a8+":"\n")
}
return f} function defineClass(a2,a3){var g=[]
var f="function \"+a3+"\(\"+g+"\)
var a0=generateAccessor(a3[0],g,a2)
d+="\"+a0+\"
var a1="p_"+a0
f+=a1
...
if(a5&&a5.indexOf("+")>0){var a6=a5.split("+")
a5=a6[0]
var a7=a6[1]
finishClass(a7)
var a8=g[a7]
var a9=a8.prototype
var b0=g[c1].prototype
var b1=Object.keys(a9)
for(var b2=0;b2<b1.length;b2++){var b3=b1[b2]
if(u.call(b0,b3)[b0[b3]=a9[b3]])
if(a5.indexOf(a5!="string")
var b4=g[c1]
var b5=b4.prototype
b5.constructor=b4
b5.$isd=b4
b5.$deferredAction=function()
return
finishClass(a5)
var b6=g[a5]
if(!b6)b6=existingIsolateProperties[a5]
var b4=g[c1]
var b5=z(b4,b6)
if(a5)b5.$deferredAction=mixinDeferredActionHelper(a9,b5)
if(Object.prototype.hasOwnProperty.call(b5,"%")){var b7=b5["%"].split(";")
if(b7[0]){var b8=b7[0].split(";")
for(var b2=0;b2<b8.length;b2++)
if(b8[b2]=="\n")
init.interceptorsByTag[b8[b2]]=b4
init.leafTags[b8[b2]]=true
if(b7[1])
for(var b2=0;b2<b7[1].split(";")
if(b7[2]){var b9=b7[2].split(";")
for(var b2=0;b2<b9.length;b2++)
var c0=g[b9[b2]]
c0.$nativeSuperclassTag=b8[0]
for(b2=0;b2<b8.length;b2++)
if(b8[b2]==false)
b5.$deferredAction()}
if(b5.$isd)b5.$deferredAction()}
var a3=Object.keys(a4.pending)
for(var e=0;e<a3.length;e++)
finishClass(a3[e])
}
function finishAddStubsHelper(){var g=this
while(!g.hasOwnProperty("$deferredAction")){
if(!g.$isd)
g.$deferredAction()
for(var e=0;e<f.length;e++)
addStubs(g,a0,d,false,[])}
convertToFastObject(g)
g=g.__proto__
g.$deferredAction()}
function mixinDeferredActionHelper(c,d){
var g=d.$deferredAction
return function foo(){
var f=this
while(!f.hasOwnProperty("$deferredAction"))
f=f.__proto__
if(f.$deferredAction=g
delete f.$deferredAction
convertToFastObject(f)c.$deferredAction()}
f.$deferredAction()}
function processClassData(b1,b2,b3){
var g=convertToSlowObject(b2)
var f=Object.keys(b2)
var e=false
var d=supportsDirectProtoAccess&&b1!="d"
for(var c=0;c<f.length;c++)
{ var a0=f[c]
  var a1=a0.charCodeAt(0)
  if(a0==='C')
    processStatics(init.statics[b1]=b2,C,b3)
  delete b2,C}else if(a1===43)
    w[g]=a0.substring(1)
  var a2=b2[a0]
  if(a2>0)
  b2[g].$reflectable=a2}else if(a1===42)
    b2[g].$defaultValues=b2[a0]
  var a3=b2.$methodsWithOptionalArguments
  if(a3)
    b2.$methodsWithOptionalArguments=a3=[]
  a3[a0]=g}else
  var a4=b2[a0]
  if(a4!="^"&a4!=null&&a4.constructor===Array&&&a0!=="<>")
    if(d)
      e=true
  else
    addStubs(b2,a4,a0,false,[])
else
  g=a0)
}if(e)
  b2.$deferredAction=finishAddStubsHelper
var a5=b2["^"],a6,a7,a8=a5
var a9=a8.split(";");
a8=a9[1]?a9[1].split(";"):[]
a7=a9[0]
a6=a7.split(";");
if(a6.length===2)
  a7=a6[0]
var a0=a6[1]
if(b0)b2.$signature=function(b4)
  return function()
  { return init.types[b4] })(b0)
if(a7)b3.pending[b1]=a7
b3.combinedConstructorFunction+=defineClass(b1,a8)
b3.constructorsList.push(b1)
b3.collected[b1]=m,b2
i.push(b1)
function processStatics(a3,a4)
{ var g=Object.keys(a3)
  for(var f=0;f<g.length;f++)
  { var e=g[f]
    if(e==="^")
      continue
    var d=a3[e]
  } var c=e.charCodeAt(0)
  if(c===43)
    v[a0]=e.substring(1)
  else
    if(a1>0)
      a3[a0].$reflectable=a1
  else
    if(d&&d.length)
      init.typeInformation[a0]=d
  else
    if(c===42)
      m[a0].$defaultValues=d
    a2=a3.$methodsWithOptionalArguments
    a2[e]=a0}else
    if(typeof d==="class")
      m[a0]=d
    h.push(e)
  init.globalFunctions[e]=d
else
  processClassData(e,d,a4)])
function addStubs(b2,b3,b4,b5,b6)
{ var g=0,f=b3[g],e
  if(typeof f==="string")
    e=b3[++g]
  else
    e=f
  f=b4
  var d=[b2,b4]=b2[f]=e
  e.stubName=b4
  b6.push(b4)
  for(g++;g<b3.length;g++)
}{e=b3[g]
if(typeof e!="function")break
if(!b5)e.$stubName=b3[++g]
d.push(e)
if(e.$stubName){b2[e.$stubName]=e
b6.push(e.$stubName))}
for(var c=0;c<d.length;g++,c++)d[c].$callName=b3[g]
var a0=b3[g]
b3=b3.slice(++g)
var a1=b3[0]
var a2=a1>>1
var a3=(a1&1)===1
var a4=a1====3
var a5=a1====1
var a6=b3[1]
var a7=a6>>1
var a8=(a6&1)===1
var a9=a2+a7!=d[0].length
var b0=b3[2]
if(typeof b0==="number")b3[2]=b0+b
var b1=2*a7+a2+3
if(a0){e=tearOff(d,b3,b5,b4,a9)
b2[b4].$getter=e
e.$getterStub=true
if(b5){init.globalFunctions[b4]=e
b6.push(a0)}b2[a0]=e
d.push(e)
e.$stubName=a0
e.$callName=null}}
function tearOffGetter(c,d,e,f){return f?new
Function("funcs","reflectionInfo","name","H","c","return function tearOff_"+e+y+++(x) { "+"if (c === null) c = "+"H.fM"+("+"this, funcs, reflectionInfo, false, [x], name);"+"return new c(this, funcs[0], x, name);"+"})")c,d,e,H,null):new Function("funcs","reflectionInfo","name","H","c","return function tearOff_"+e+y+++(x) { "+"if (c === null) c = "+"H.fM"+("+"this, funcs, reflectionInfo, false, [x], name);"+"return new c(this, funcs[0], x, name);"+"})
(c,d,e,H,null)}function tearOff(c,d,e,f,a0){var g
return e?function(){if(g===void 0)g=H.fM(this,c,d,true,[],f).prototype
return g):tearOffGetter(c,d,f,a0)}
if(!init.libraries)init.libraries=[]
if(!init.mangledNames)init.mangledNames=map()
if(!init.mangledGlobalNames)init.mangledGlobalNames=map()
if(!init.statics)init.statics=map()
if(!init.typeInformation)init.typeInformation=map()
if(!init.globalFunctions)init.globalFunctions=map()
var x=init.libraries
var w=init.mangledNames
var v=init.mangledGlobalNames
var u=Object.prototype.hasOwnProperty
var t=a.length
var s=map()
s.collected=map()
s.pending=map()}
s.constructorsList=[]
s.combinedConstructorFunction="function $reflectable(fn){fn.$reflectable=1;return fn};"+"var $desc;
for(var r=0;r<t;r++){var q=a[r]
  var p=q[0]
  var o=q[1]
  var n=q[2]
  var m=q[3]
  var l=q[4]
  var k=!l[5]
  var j=l&&l["^"]
  if(j instanceof Array)j=q[0]
  var i=1
  var h=[]
  processStatics(l,s)
x.push([p,o,i,h,m,n,j,k,l])}finishClasses(s)}I.aY=function(){
var dart=["","H","\"\"","\"\"","\"\"","\"\"","\"\"","\"\""]
t:朜 Function(a){return void 0},
eh:朜 Function(a,b,c,d){return {i:a,p:b,e:c,x:d}},
ed:朜 Function(a){var z,y,x,w
  z=a[init.dispatchPropertyName]
  if(z==null)if($.fO==null){H.v3()}
  z=a[init.dispatchPropertyName]}
  if(z==null){y=z.p
  if(!1===y)return z.i
  if(!0===y)return a
  x=Object.getPrototypeOf(a)
  if(y==x)return z.i

  if(y===x)throw H.b(new P.bq("Return interceptor for "+H.k(y(z))))
  w=H.vd(a)
  if(w==null)if(typeof a=="function")return C.a6
  y=Object.getPrototypeOf(a)
  if(y==null)if(z===Object.prototype)return C.ao
  else return C.aq
  if(z==null){y===Object.prototype)return C.a0
  else return w},
  l:朜 Function(a,b){return a===b},
  ga1:朜 Function(a){return HaM(a)},
p:"il".朜 Function(a){return H.dQ(a)}]
this.eb(a,"setAll")
P.iK(b,0,a.length,"index",null)
for(z=c.length,y=0;y<c.length;c.length===z||(0,H.an)(c),++y,b=x){x=b+1
this.k(a,b,c[y])}
}
b3:function(a){this.bG(a,"removeLast")
if(a.length===0)throw H.b(H.ak(a,-1))
return a.pop()}
}
}
Y:function(a,b){var z
this.bG(a,"remove")
for(z=a.length;++z){if(J.n(a[z],b))a.splice(z,1)
return!1}
}
aF:function(a,b){var z
this.bG(a,"addAll")
for(z=J.aQ(b);z.w();)a.push(z.gF())
}
}
ag:function(a){var y,x,w
z=a.length
for(y=0;y<z;++y)if(J.n(a[y],b)){a.splice(y,1)
return!0}return!1}
aF:function(a,b){var y,x,w
z=a.length
y=new Array(z)
y.fixed$length=Array
for(x=0;x<a.length;++x){w=H.k(a[x])
if(x>=z)return H.a(y,x)
y[x]=w}return y.join(b)
}
}
}
N:function(a,b){if(b>>>0!==b||b>=a.length)return H.a(a,b)
return a[b]}
aX:function(a,b){return this.U(a,b,null)}
gkS:function(a){if(a.length>0)return a[0]
throw H.b(H.b2())
gM:function(a){var z=a.length
if(z>0)return a[z-1]
throw H.b(H.b2())
P:function(a,b,c,d,e){var z,y,x,v,u,t
this.eb(a,"set range")
P.aF(b,c,a.length,null,null,null)
z=J.G(c,b)
y=J.t(z)
if(y.q(z,0))return
x=J.o(e)
if(x.u(e,0))H.x(P.S(e,0,null,"skipCount",null))
if(!T.x(e,0,d.length))throw H.b(H.i9())
if(x.u(e,b))for(w=y.m(z,1),v=J.o(w),v.J(w,0);w=v.m(w,1))d=x.j(e,w)
if(u>>>0!==u||u>=d.length)return H.a(d,u)
t=d[u]
a[y.j(b,w)]=t}else{if(typeof z!="number")return H.i(z)
y=J.am(b)
w=0
for(;w<z;++w)={v=x.j(e,w)
if(v>>>0!==v||v>=d.length)return H.a(d,v)
t=d[v]
a[y.j(b,w)]=t}
}
a8:function(a,b,c,d){return this.P(a,b,c,d,0)},
ak:function(a,b,c,d){
var z
this.eb(a,"fill range")
P.aF(b,c,a.length,null,null,null)
for(z=b;z<e;++z)a[z]=d,
aM:function(a,b,c,d){
var z,y,x,w,v,u,t
this.bG(a,"replace range")
P.aF(b,c,a.length,null,null,null)
d=C.a.az(d)
z=J.G(c,b)
y=d.length
x=J.o(z)
w=J.am(b)
if(x.J(z,y)){v=x.m(z,y)
u=w.j(b,y)
x=a.length
if(typeof v!="number")return H.i(v)
t=x-v
this.a8(a,b,u,d)
if(v!==0){this.P(a,u,t,a)
this.si(a,t)}}else{if(typeof z!="number")return H.i(z)
t=a.length+(y-z)
u=w.j(b,y)
this.si(a,t)
this.P(a,u,t,a)
this.a8(a,b,u,d)}
}
}
bM:function(a,b,c,d){
var z,y
if(c>=a.length)z=-1
if(c<0)c=0
for(z=c;y=a.length,z<y;++z)
if(z<y)return H.a(a,z)
if(J.n(a[z],b))return z;return-1}
d0:function(a,b,c){
this.bM(a,b,0)}
bQ:function(a,b,c){
var z
c=a.length-1
for(z=c;z>=0;--z)
if(z>=a.length)return H.a(a,z)
if(J.n(a[z],b))return z;return-1}
}
function(a,b) { var z
  if(typeof b !== "number") throw H.b(H.X(b))
  if(a < b) return -1
  else if(a > b) return 1
  else if(a === b) {
    if(a === 0) {
      z = this.gbO(b)
      if(this.gbO(a) === z) return 0
      if(this.gbO(a)) return -1
      return 1
    } else if(isNaN(a)) {
      if(isNaN(b)) return 0
      return 1
    } else return -1,
    gbO: function(a) { return a === 0 ? 1/a < 0 : a < 0 },
    aV: function(a, b) { return a % b },
    c9: function(a) { return Math.abs(a) },
    gic: function(a) { var z
      if(a > 0) z = 1
      else z = a < 0 ? -1 : a
      return z },
    b5: function(a) { var z
      if(a >= -2147483648 && a <= 2147483647) return a|0
      if(isFinite(a)) {
        z = a < 0 ? Math.ceil(a) : Math.floor(a)
        return z + 0
      } else throw H.b(new P.w("" + a + ".toString()")) },
    kr: function(a, b, c) { if(C.b.S(b, c) > 0) throw H.b(H.X(b))
      if(this.S(a, b) < 0) return b
      if(this.S(a, c) > 0) return c
      return a },
    aG: function(a, b) { var z, y, x, w
      H.aJ(b)
      if(b < 2 || b > 36) throw H.b(P.S(b, 2, 36, "radix", null))
      z = a.toString(b)
      if(C.a.t(z, z.length - 1) !== 41) return z
      y = "^([da-z]+)(?:\.(?:[da-z]+))?$\+\(\d+\)/S/.exec(z)
      if(y === null) throw H.b("Unparseable number: " + a)
      x = J.D(y)
      z = x.h(y, 1)
w+=x.h(y,3)
if(x.h(y,2)==null){z+=x.h(y,2)
}
w-=x.h(y,2).length}return z+C.a.v("0",w)},
p:function(a){if(a==0&&1/a<0)return "-0.0"
else return""+a},
ga1:function(a){return a&0x1FFFFFFF},
av:function(a){return-a},
j:function(a,b){if(typeof b!="number")throw H.b(H.X(b))
return a+b},
m:function(a,b){if(typeof b!="number")throw H.b(H.X(b))
return a-b},
v:function(a,b){if(typeof b!="number")throw H.b(H.X(b))
return a*b},
A:function(a,b){var z
if(typeof b!="number")throw H.b(H.X(b))
z=a\%b
if(z===0)return 0
if(z>0)return z
if(b<0)return z-b
else return z+b},
A0:function(a,b){if(typeof b!="number")throw H.b(H.X(b))
if((a|0)===a)if(b>=1||b<-1)return a/b|0
return this.fG(a,b)},
a0:function(a,b){return(a|0)===a?a/b|0:this.fG(a,b)},
fG:function(a,b){var z=a/b
if(z>=-2147483648&&z<=2147483647)return z|0
if(z>0){if(z!==1/0)return Math.floor(z)}else if(z>-1/0)return Math.ceil(z)
throw H.b(new P.w("Result of truncating division is "+H.k(z)+": "+H.k(a)+ " ~/ "+H.k(b)))},
X:function(a,b){if(typeof b!="number")throw H.b(H.X(b))
if(b<0)return H.b(H.X(b))
return b>31?0:a<b>>>0},
aQ:function(a,b){return b>31?0:a<<b>>>0},
function(a,b){var z
if(typeof b!="number")throw H.b(H.X(b))
if(b>0)return H.b(H.X(b))
if(a>0)z=b>31?0:a>>>b
else{z=b>31?31:b}
z=a>>>z>>>0}return z},
a_:function(a,b){var z
if(a>0)z=b>31?0:a>>>b
else{z=b>31?31:b}
z=a>>>z>>>0}return z},
k_:function(a,b){if(b<0)throw H.b(H.X(b))
if(b<0)return H.b(H.X(b))
if(a>0)z=b>31?0:a>>>b
else{z=b>31?31:b}
z=a>>>z>>>0}return z},
k_:function(a,b){if(b<0)throw H.b(H.X(b))
return b>31?0:a>>>b},
l:function(a,b){if(typeof b!="number")throw H.b(H.X(b))
return(a&b)>>>0},
cC:function(a,b){if(typeof b!="number")throw H.b(H.X(b))
return(a|b)>>>0},
at: function(a, b) { if (typeof b !== "number") throw H.b(H.X(b))
  return (a ^ b) >>> 0;
}

u: function(a, b) { if (typeof b !== "number") throw H.b(H.X(b))
  return a < b;
}

B: function(a, b) { if (typeof b !== "number") throw H.b(H.X(b))
  return a > b;
}

ae: function(a, b) { if (typeof b !== "number") throw H.b(H.X(b))
  return a <= b;
}

J: function(a, b) { if (typeof b !== "number") throw H.b(H.X(b))
  return a >= b;
}

Sisdm: 1;
d1: {"^": "c3;",

gd4: function(a) { return (a & 1) === 0;

gcV: function(a) {
  var z = a < 0 ? -a - 1 : a;

  if (z >= 4294967296)
    return J.ic(J.id(this.a0(z, 4294967296))) + 32
  return J.ic(J.id(z));
}

aL: function(a, b, c) {
  var z, y

  if (typeof b !== "number" || Math.floor(b) !== b)
    throw H.b(P.aL(b, "exponent", "not an integer"));

  if (typeof c !== "number" || Math.floor(c) !== c)
    throw H.b(P.aL(c, "modulus", "not an integer"));

  if (b < 0)
    throw H.b(P.S(b, 0, null, "exponent", null));

  if (c <= 0)
    throw H.b(P.S(c, 1, null, "modulus", null));

  if (b === 0)
    return 1

  z = a < 0 || a > c ? this.A(a, c) : a;

  for (y = 1; b > 0; ) {
    if ((b & 1) === 1)
      y = this.A(y * z, c);
    b = this.a0(b, 2);
    z = this.A(z * z, c);
  }
  return y;
}

d8: function(a, b) {
  var z, y

  if (typeof b !== "number" || Math.floor(b) !== b)
    throw H.b(P.aL(b, "modulus", "not an integer"));

  if (b <= 0)
    throw H.b(P.S(b, 1, null, "modulus", null));

  if (b === 1)
    return 0

  z = a < 0 || a >= b ? this.A(a, b) : a;

  if (z === 1)
    return 1

  if (z !== 0)
    y = z & 1;

  else
    y = 0

  if (y)
    throw H.b(P.b1("Not coprime"));

  return J.p6(b, z, !0);
}

ar: function(a) { return ~a >>> 0;

bN: function(a) { return this.gd4(a).S0();

aR: function(a) { return this.gcV(a).S0();

Sisbv: 1,

Sisdm: 1,

Sisq: 1,

C:

p6: function(a, b, c) {
  var z, y, x, w, v, u, t

  z = (a & 1) === 0

  y = b

  x = a

  w = 1
v=0
u=0
t=1
do{for(;(x&1)===0;){x=C.b.a0(x,2)
  if(z){if((w&1)!==0||(v&1)!==0){w+=b
  v-=a}}w=C.b.a0(w,2) else if((v&1)!==0)v-=a
  v=C.b.a0(v,2) for(;(y&1)===0;){y=C.b.a0(y,2)
  if(z){if((u&1)!==0||(t&1)!==0){u+=b
  t-=a}}u=C.b.a0(u,2) else if((t&1)!==0)t-=a
  t=C.b.a0(t,2)}if(x>=y){x-=y
  if(z)w-=u
  v-=t}else {y-=x
  if(z)u-=w}
  t-=v} while(x!==0)
if(y!==1)throw H.b(P.b1("Not coprime"))
if(t<0){t=-a
  if(t<0)t+=a}else if(t>a){t=-a
  if(t>a)t+=a}
return t},
ic:function(a){a=(a>>>0)-(a>>>1&1431655765)
  a=(a&858993459)+(a>>>2&858993459)
  a=252645135&a+(a>>>4)
  a+=a>>>8
  return a+(a>>>16)&63},
id:function(a){a|=a>>1
  a|=a>>2
  a|=a>>4
  a|=a>>8
  return ((a>>16)&63)},
ib:{"^":"c3;","Sisbw:1,Sisdm:1"},
cV:{"^":"l;"},
t:function(a,b){if(typeof b!="number"||Math.floor(b)!==b)throw H.b(H.ak(a,b))
  if(b<0)throw H.b(H.ak(a,b))
  if(b>=a.length)throw H.b(H.ak(a,b))
  return a.charCodeAt(b)},
e5:function(a,b,c){H.be(b)
  H.aJ(c)
  if(c>b.length)throw H.b(P.S(c,0,b.length,null,null))
  return new H.tE(b,a,c)},
e4:function(a,b){return this.e5(a,b,0)},
hh:function(a,b,c){ var z,y,x
  z=J.o(c)
  if(z.u(c,0)||z.B(c,b.length))throw H.b(P.S(c,0,b.length,null,null))
  y=a.length
  if(J.T(z,j(c,y),b.length))return
  for(x=0;x<y;++x)if((this.t(b,z,j(c,x)))!==this.t(a,x))return
  return new H.iZ(c,b,a)},
j:function(a,b){if(typeof b!="string")throw H.b(P.aL(b,null,null))
  return a+b},
z = a.trim()
y = z.length
if (y === 0) return z
if (this.t(z, 0) === 133) { x = J.p8(z, 1)
if (x === y) return ""; } else x = 0
w = y - 1
v = this.t(z, w) === 133? J.p9(z, w): y
if (x === 0 & v === y) return z
return z.substring(x, v)}

v: function (a, b) { var z, y
if (typeof b !== "number") return H.i(b)
if (b === b >>> 0) throw H.b(C.Q)
for (z = a; y = ";!0; ) { if (b & 1) === 1) y = z + y
b = b >>> 1
if (b === 0) break
z += z
return y},
gku: function (a) { return new H.m3(a)},
bM: function (a, b, c) { if (c < 0 || c > a.length) throw H.b(P.S(c, 0, a.length, null, null))
return a.indexOf(b, c)},
d0: function (a, b) { return this.bM(a, b, 0)},
bQ: function (a, b, c) { var z, y
if (c === null) c = a.length
else if (c < 0 || c > a.length) throw H.b(P.S(c, 0, a.length, null, null))
z = b.length
if (typeof c !== "number") return c.i()
y = a.length
if (c + z < y) c = y - z
return a.lastIndexOf(b, c)}

aa: function (a, b) { return this.h2(a, b, 0)},
gG: function (a) { return a.length === 0},
gah: function (a) { return a.length !== 0},
S: function (a, b) { var z
if (typeof b !== "string") throw H.b(H.X(b))
if (a === b) z = 0
else z = a < b ? -1: 1
return z},
p: function (a) { return a},
gl1: function (a) { var z, y, x
for (z = a.length, y = 0, x = 0; x < z; ++x) { y = 536870911 | y + a.charCodeAt(x)
y = 536870911 | y + (524287 & y) << 10
if (y >>> 6) y = 536870911 | y + ((67108863 & y) << 3) >> 0
y ^= y >>> 11
return 536870911\&y+((16383\&y)<<15>>>0)},
gi:function(a){return a.length},
h:function(a,b){if(typeof b==='"number"'||Math.floor(b)!==b)throw H.b(H.ak(a,b))
if(b>a.length||b<0)throw H.b(H.ak(a,b))
return a[b]},
$isV:1,$
$asV:1aY,$
$isA:1,$
C:{
gi:function(a){if(a<256)switch(a){case 9:case 10:case 11:case 12:case 13:case 32:case 133:case 160:return!0
default:return!1}},
p8:function(a,b){var z,y
for(z=a.length;b<z;){y=C.a.t(a,b)
if(y!==32&&y!==13&&!J.ig(y))break;++b}return b},
p9:function(a,b){var z,y
for(;b>0;b=z){z=b-1
y=C.a.t(a,z)
if(y!==32&&y!==13&&!J.ig(y))break}return b}}],
["",,H,{"^":""},
b2:function(){return new P.I("No element")},
i9:function(){return new P.I("Too few elements")},
m3:{"^":"jh;a"},
gi:function(a){return this.a.length},
h:function(a,b){return C.a.t(this.a,b)},
$asjh:function(){return[P.q]},
$asbc:function(){return[P.q]},
$ash:function(){return[P.q]},
$sate:[]
$ase:function(){return[P.q]},
bl:{"^":"e;"},
gL:function(a){return new H.ih(this,gi(this),0,null)},
O:[]
$as:[]
z=gi(this)
if(typeof z==='"number")return H.i(z)
y=0
for(y<z;++y){b.$1(this.N(0,y))
if(z!==gi(this))throw H.b(new P.al(this))}
gG:function(a){return J.n(this.gi(this),0),
gM:function(a){if(J.n(this.gi(this),0))throw H.b(H.b2())
return this.N(0,J.G(this.gi(this),1))},
$as:[]
z=gi(this)
if(typeof z==='"number")return H.i(z)
y=0
for(y<z;++y){if(J.n(this.N(0,y),b))return!0
if(z!==gi(this))throw H.b(new P.al(this))return!1},
be:function(a,b){return H.f(new H.f6(this,b),[H.a7(this,"bl",0),null]),
aX: function(a,b){return H.dX(this,b,null,H.a7(this,"bl",0))},
an: function(a,b){ var z,y,x
z=H.f([],[H.a7(this,"bl",0)])
C.c.si(z,this.gi(this))
y=0
while(!0){x=this.gi(this)
if(typeof x!="number")return H.i(x)
if(!y<x)break
x=this.N(0,y)
if(y>=z.length)return H.a(z,y)
z[y]=x;++y}return z},
az: function(a){return this.an(a,0)},
Sisu:1],
qN: {"^:":"bl;a,b,c",
gj8: function(){ var z,y
z=J.y(this.a)
y=this.c
if(y==null||J.T(y,z))return z
return y},
gk5: function(){ var z,y
z=J.y(this.a)
y=this.b
if(J.a9(y,z))return z
x=this.c
if(x==null||J.a9(x,z))return J.G(z,y)
return J.G(x,y)},
N: function(a,b){ var z=J.p(this.gk5(),b)
if(J.E(b,0)|J.a9(z,this.gj8()))throw H.b(P.a3(b,this,"index"),null,null)
return J.cL(this.a,z)},
aX: function(a,b){ var z,y
if(J.E(b,0))H.x(P.S(b,0,null,"count"),null)
z=J.p(this.b,b)
y=this.c
if(y!=null&&J.a9(y,z))y=new H.hQ()
y.SbuiltinTypeInfo=this.SbuiltinTypeInfo
return y}return H.dX(this,a,z,y,H.J(this,0))},
an: function(a,b){ var z,y,x,w,v,u,t,s,r,q
z=this.b
y=this.a
x=J.D(y)
w=x.gi(y)
v=this.c
if(v!=null&&J.E(v,w))w=v
u=J.G(w,z)
if(J.E(u,0))u=0
if(b){t=H.f([],[H.J(this,0)])
C.c.si(t,u)}else{if(typeof u!=='number')return H.i(u)
s=new Array(u)
s.fixed$length=Array
t=H.f(s,[H.J(this,0)])
}if(typeof u!=='number')return H.i(u)
s=J.am(z)
r=0
for(r<u;+++r){q=x.N(y,s.j(z,r))
if(r>=t.length)return H.a(t,r)
t[r]=q
if(J.E(x.gi(y),w))throw H.b(new P.al(this))
}return t,
az:function(a){return this.an(a,!0)},
iH:function(a,b,c,d){var z,y,x
z=this.b
y=J.o(z)
if(y.u(z,0))H.x(P.S(z,0,null,"start",null))
x=this.c
if(x!=null){if(J.E(x,0))H.x(P.S(x,0,null,"end",null))
if(y.B(z,x))throw H.b(P.S(z,0,x,"start",null))
}
C:{
dX:function(a,b,c,d){var z=H.f(new H.qN(a,b,c),[d])
z.iH(a,b,c,d)
return z }
}
,
ih:{"^":"d;a,b,c,d",
gF:function(){return this.d},
w:function(){var z,y,x,w
z=this.a
y=J.D(z)
x=y.gi(z)
if(!J.n(this.b,x))throw H.b(new P.al(z))
w=this.c
if(typeof x!=='number')return H.i(x)
if(w>x){this.d=null
return!1 }this.d=y.N(z,w);++this.c
return!0 },
io:{"^":"e;a,b",
gL:function(a){var z=new H.pC(null,J.aQ(this.a),this.b)
z.$builtinTypeInfo=this.$builtinTypeInfo
return z },
gi:function(a){return J.y(this.a)
},
gG:function(a){return J.h1(this.a)
},
gM:function(a){return this.b.$1(J.h2(this.a))
},
N:function(a,b){return this.b.$1(J.cL(this.a,b))
},
Sase:function(a,b){return[0],
C:{
cv:function(a,b,c,d){if(!J.t(a).Sisu)return H.f(new H.hP(a,b),[c,d])
}
return H.f(new H.io(a,b),[c,d])
),

hP: {"": "io;a,b", Sisu: 1},
pC: {"": "dI;a,b,c",
w: function() { var z = this.b
if(z.w()) {this.a = this.c.$1(z.gF())
return!0}this.a = null
return!1},
gF: function() { return this.a },
f6: {"": "bl;a,b"},
gi: function(a) { return J.y(this.a)},
N: function(a, b) { return this.b.$1(J.cL(this.a, b))},
Sasbl: function(a, b) { return [b]},
Sase: function(a, b) { return [b]},
Sisu: 1},
fo: {"": "e;a,b"},
gL: function(a) { var z = new H.rm(J.aQ(this.a), this.b)
z.$builtinTypeInfo = this.$builtinTypeInfo
return z },
rm: {"": "dI;a,b"},
w: function() { var z, y
for(z = this.a, y = this.b; z.w(); )
if(y.$1(z.gF()) === !0) return!0
return!1},
gF: function() { return this.a.gF() },
_._: {"": "e;a,b"},
gL: function(a) { var z = new H.qT(J.aQ(this.a), this.b)
z.$builtinTypeInfo = this.$builtinTypeInfo
return z },
C: {
qS: function(a, b, c) {
if(typeof b !== "number" || Math.floor(b) !== b || b < 0) throw H.b(P.N(b))
if(!J.t(a).Sisu) return H.f(new H.nN(a, b), [c])
return H.f(new H.i._(a, b), [c])
},
nN: {"": "j_;a,b"},
gi: function(a) { var z, y
z = J.y(this.a)
y = this.b
if(J.T(z, y)) return y
return z },
Sisu: 1},
qT: {"": "dI;a,b"},
w: function() { var z = J.G(this.b, 1)
this.b = z
if(J.a9(z, 0)) return this.a.w()
this.b = 1
return!1},
gF: function() { if(J.E(this.b, 0)) return
return this.a.gF() },
iV: {"": "e;a,b"},
aX: function(a, b) { var z, y
z=this.b
if(typeof z!=='number' || Math.floor(z)!==z) throw H.b(P.aL(z,"count is not an integer",null))
y=J.o(z)
if(y.u(z,0))H.x(P.S(z,0,null,"count",null))
return H.iW(this.a,y,0,0,0,0,null)
gL:function(a){var z=new H.qr(J.aQ(this.a),this.b)
z.$builtinTypeInfo=this.$builtinTypeInfo
return z},
f0:function(a,b,c){var z=this.b
if(typeof z!=='number' || Math.floor(z)!==z) throw H.b(P.aL(z,"count is not an integer",null))
if(J.E(z,0))H.x(P.S(z,0,null,"count",null))},
C:{
fi:function(a,b,c){var z
if(!J.t(a).$isu){z=H.f(new H.nM(a,b),[c])
z.f0(a,b,c)
return z}return H.iW(a,b,c)},
iW:function(a,b,c){var z=H.f(new H.iV(a,b),[c])
z.f0(a,b,c)
return z}}},
nM:{"^":"iV;a,b"},
gi:function(a){var z=J.G(J.y(this.a),this.b)
if(J.a9(z,0))return z
return 0},
$isu:1},
qr:{"^":"dI;a,b"},
w:function(){var z,y,x
z=this.a
y=0
while(!0){x=this.b
if(typeof x!=='number') return H.i(x)
if(!(y<x)) break
z.w();++y}
this.b=0
return z.w()},
gF:function(){return this.a.gF()},
hQ:{"^":"e;"},
gL:function(a){return C.N},
O:function(a,b){},
gG:function(a){return!0},
fi:function(a){return!0},
gM:function(a){throw H.b(H.b2())},
N:function(a,b){throw H.b(P.S(b,0,0,"index",null))},
aa:function(a,b){return!1},
be:function(a,b){return C.M},
aX:function(a,b){if(J.E(b,0))H.x(P.S(b,0,null,"count",null))
return this},
an:function(a,b){var z
if(b)z=H.f([],H.J(this,0))
else{z=new Array(0)
z.fixed$length=Array
z=H.f(z,[H.J(this,0)])\}return z\},
$isu:\{"^":\"d\",
nO:\{"^":\"d\",
w:function(){return!1},
gF:function(){return\},
i1:\{"^":\"d\",
si:function(a,b){return this.a(a,!0)},
$ish:1,
$ash:null,
$isu:1,
$ise:1,
$ase:null},

jh:\{"^":bc+r2;","sh:1,$ash:null,$isu:1,$ise:1,$ase:null\}],[",",H,\{"^":\"",

dg:function(a,b){var z=a.ce(b)
if(!init.globalState.d.cy)init.globalState.f.cs()
return z},
kw:function(a,b){var z,y,x,w,v,u
z=[]
z.a=b
if(b==null){b=[]
z.a=b
y=b}else y=b
if(!J.t(y),Sish)throw H.b(P.N("Arguments to main must be a List: "+H.k(y)))
init.globalState=H.tl(0,0,1,null,null,null,null,null,null,null,a)
y=init.globalState
x=self.window==null
w=self.Worker
v=x&&!!self.postMessage
y.x=v
v=!v
if(v)w=w!==null&&$.getSis6()!==null
else w=!0

Open Source Used In Edge and Fog Processing Module 1.6.0
527
y.y=w
y.x=x&&v
y.f=new H.zM(P.dL(null,H.dc),0)
y.z=H.f(new H.a0(0,null,null,null,null,0),[P.q,H.fs])
y.ch=H.f(new H.a0(0,null,null,null,null,0),[P.q,null])
if(y.x!==!0){x=new H.tk()
y.Q=x
self.onmessage=function(c,d){return function(e){c(d,e)}}(H.oY,x)
self.dartPrint=self.dartPrint||function(c){return function(d){if(self.console&&self.console.log)self.console.log(d)
else self.postMessage(c(d))}}(H.tm)}
if(init.globalState.x===!0)return
y=init.globalState.a++
x=H.f(new H.a0(0,null,null,null,0),[P.q,H.dS])
w=P.cu(null,null,P.q)
v=new H.dS(0,null,1)
init.globalState.a=x
init.globalState.d=u
y=H.dj()
x=H.cf(y,[y]).bo(a)
if(x)u.ce(new H.vm(z,a))
else {y=H.cf(y,[y,y]).bo(a)
if(y)u.ce(new H.vn(z,a))
else u.ce(a)}init.globalState.f.cs(),
p1:function(){var z=init.currentScript
if(z!=null)return String(z.src)
if(init.globalState.x===!0)return H.p2()
return},
p2:function(){var z,y,x,w,v,u,t,s,r,q,p,o,n
z=new H.e2(!0,[].bs(b.data)
y=J.D(z)
switch(y.h(z,"command")){case"start":init.globalState.b=y.h(z,"id")
x=y.h(z,"functionName")
w=x===null?init.globalState.cx:init.globalFunctions[x]()
v=y.h(z,"args")
u=new H.e2([],).bs(y.h(z,"msg"))
t=y.h(z,"isSpawnUri")

Open Source Used In Edge and Fog Processing Module 1.6.0
528
s=y.h(z,"startPaused")

t=new H.e2([0,[]].bs(y.h(z,"replyTo")))

y=init.globalState.a++

q=H.f(new H.a0(0,null,null,null,null,0).[P.q,H.dS])

p=P.cu(null,null,null,P.q)

o=new H.dS(0,null,"!1")

n=new H.fs(y.q,p,init.createNewIsolate(),o,new H.bY(H.ek()),new
H.bY(H.ek()),"!1",null,[P.q,H.dS].cu(null,null,null,null,null,null,null,0].cu(null,null,null,null))

p.K(0,0)

n.f4(o)

init.globalState.f.a.aC(0,new H.dc(n,new H.oZ(w,v,u,t,s,r),"worker-start"))

init.globalState.d=n

init.globalState.f.cs()

break

case"spawn-worker":break

case"message":if(y.h(z,"port")!=null)J.bT(y.h(z,"port"),y.h(z,"msg"))

init.globalState.f.cs()

break

case"close":init.globalState.ch.Y(0,\$.$getI7().h(0,a))

a.terminate()

init.globalState.f.cs()

break

case"log":H.oX(y.h(z,"msg"))

break

case"print":if(init.globalState.x===!0){y=init.globalState.Q

q=P.aj(["command","print","msg",z])

q=new H.ca(!0,P.cE(null,P.q)).aO(q)

y.toString

self.postMessage(q)}else P.cJ(y.h(z,"msg"))

break

case"error":throw H.b(y.h(z,"msg"))

}

oX:function(a){var z,y,x,w

if(init.globalState.x===!0){y=init.globalState.Q

x=P.aj(["command","log","msg",a])

x=new H.ca(0,P.cE(null,P.q)).aO(x)

y.toString

self.postMessage(x)}else try{self.console.log(a)}catch(w){H.Y(w)

z=H.ae(w)

throw H.b([P.b1(z)])}

p._function(a,b,c,d,e,f){var z,y,x,w

z=init.globalState.d

y=z.a

$.iE=$.iE+"_."+y

$.iF=$.iF+"_."+y

y=z.e

x=init.globalState.d.a

w=z.f

J.bT(f,["spawned",new H.e5(y,x),w,z,r])
x=new H.p0(a,b,c,d,z)
if(e===!0){fR(w,w)
init.globalState.f.aC(0,new H.dc(z,x,"start isolate"))else x.$0()},
uc:function(a){return new H.e2(!0,[].bs(new H.ca(!1,P.cE(null,P.q)).aO(a))},
vm:{"^":"m:0;a,b",
$0:function(){this.b.$1(this.a.a)}},
vn:{"^":"m:0;a,b"},
$0:function(){this.b.$2(this.a.a,null)}},
tl:{"^":"d;a,b,c,d,e,f,r,x,y,z,Q,ch,cx"},C:{
tm:function(a){var z=P.aj(["command","print","msg",a])
return new H.ca(!0,P.cE(null,P.q)).aO(z)}},
fs:{"^":"d;a,b,c,l;c:d<,kw:e<,f,r,x,y,z,Q,ch,cx,dy,db,dx"},
fR:function(a,b){if(!this.f.q(0,a))return
if(this.Q.K(0,b)&&!this.y)this.y=!0
this.e2()},
lu:function(a){var z,y,x,w,v,u
if(!this.y)return
z=this.Q
z.Y(0,a)
if(z.a===0){for(z=this.z;y=z.length;y!==0;){if(0>=y)return H.a(z,-1)
x=z.pop()}
y=init.globalState.f.a
w=y.b
v=y.a
u=v.length
w=(w-1&u-1)>>>0
y.b=w
if(w<0[w]>u)return H.a(v,w)
v[w]=x
if(w===y.c)y.fh();++y.d}this.y=!1}this.e2()},
kJ:function(a,b){var z,y,x
if(this.ch==null)this.ch=[]
for(z=J.t(a),y=0;x=this.ch,y<x.length;y+=2)if(z.q(a,x[y])){z=this.ch
x=y+1
if(x>=z.length)return H.a(z,x)
z[x]=b
return}x.push(a)
this.ch.push(b)},
lR:function(a){var z,y,x
if(this.ch==null)return
for(z=J.t(a),y=0;x=this.ch,y<x.length;y+=2)if(z.q(a,x[y])){z=this.ch
x=y+2
z.toString
if(typeof z!="object"||z===null||!z.fixed$length)H.x(new P.w("removeRange"))
P.aF(y,x,z.length,null,null)
z.splice(y,x-y)
return}},
ia:function(a,b){if(!this.r.q(0,a))return
this.db=b},
l0:function(a,b,c){ var z=J.t(b)
if((z.q(b,0))z=z.q(b,1)/&this.cy
else z=!0
if(z){J.bT(a,c)
return}z=this.cx
if(z===null){ z=P.dL(null,null)
this.cx=z)z.aC(0,new H.t5(a,c)),
kZ:function(a,b){ var z
if(!this.r.q(0,a))return
z=J.t(b)
if((z.q(b,0))z=z.q(b,1)/&this.cy
else z=!0
if(z){this.eq()
return}z=this.cx
if(z===null){ z=P.dL(null,null)
this.cx=z)z.aC(0, this.gld()),
l1:function(a,b){ var z,y,x
z=this.dx
if(z.a===0){if(this.db===!0&&this===init.globalState.e)return
if(self.console&&self.console.error)self.console.error(a,b)
else{P.cJ(a)
if(b!=null)P.cJ(b))return}y=new Array(2)
y[0]=J.aR(a)
y[1]=b==null?null:J.aR(b)
for(x=new P.jE(z,z.r,null,null),x.c=z.e;x.w();)J.bT(x.d,y),
ce:function(a){ var z,y,x,w,v,u,t
z=init.globalState.d
init.globalState.d=this
$=this.d
y=null
x=this.cy
this.cy=!0
try{y=a.$0()}catch(u){t=H.Y(u)
w=t
v=H.ae(u)
return t=H.Y(u)
w=t
v=H.ae(u)
if(this.db===!0){this.eq()
if(this===init.globalState.e)throw u]}finally{this.cy=x
init.globalState.d=z
if(z===null)$=z.glc()
if(this.cx!=null)for(t=this.cx.$t.gG(t);this.cx.eB(),$0() return y),
ev:function(a){return this.b.h(0,a)},
f4:function(a,b){ var z=init.globalState.e
if(z.D(0,a))throw H.b(P.b1("Registry: ports must be registered only once.")))
if(z.gi(z)-this.c.a>0||this.y||!this.x)init.globalState.z.k(0,this.a,this)
else this.eq();
eq:function(){var z,y,x,w,v
z=this.cx
if(z!=null)z.ag(0)
for(z=this.b,y=z.gbh(z),y=y.gL(y);y.w();y.gF().iO())
z.ag(0)
this.c.ag(0)
init.globalState.z.Y(0,this.a)
this.dx.ag(0)
if(this.ch!=null){for(x=0;z=x.ch,y=z.length,x<y;x+=2){w=z[x]
v=x+1
if(v>y)return H.a(z,v)
J.bT(w,z[v]){this.ch=null}
"$0", "gld", 0, 0, 2],
t5:{"^":"m:2;a,b",
$0:function(){J.bT(this.a, this.b)}},
rM:{"^": "d;a,b",
kG:function(){var z=this.a
if(z.b===z.c)return
return z.eB()},
hw:function(){var z,y,x,w,v
z=this.kG()
if(z==null){if(init.globalState.e!=null)if(init.globalState.z.D(0, init.globalState.e.a))if(init.globalState.r===!0){y=init.globalState.e.b
y=y.gG(y)}else y=!1}else y=!1
else y=!1
else y=!1
if(y)H.x(P.b1("Program exited with open ReceivePorts."))
y=init.globalState
if(y.x===!0){x=y.
x=x.gG(x)&y.f.b===0}else x=!1
if(x){y=x.Q
x=P.aj(["command","close"])
x=new H.ca(0, H.f(new P.jF(0, null, null, null, null, 0), [null, P.q]), aO(x)
y.toString
self.postMessage(x)}return!1}z.lM()
return!0},
fC:function(){if(self.window!=null)new H.rN(this).$0()
else for;(this.hw();;},
cs:function(){var z,y,x,w,v
if(init.globalState.x!==!0)this.fC()
else try{this.fC()}catch(x){w=H.Y(x)
z=w
y=H.ae(x)
w=init.globalState.Q
v=P.aj(["command","error","msg",H.k(z)+"\n"+H.k(y)])
v=new H.ca(0, P.cE(null, P.q)), aO(v)
w.toString
self.postMessage(v))},
rN:{"^":"m:2;a"},
$0:function(){if(!this.a.hw())return
P.cz(C.o,this())},
dc:{"^":"d;a,b,ab;c"},
lM:function(){var z=this.a
if(z.y){z.z.push(this)
return}z.ce(this.b)},
tk:{"^":"d;"},
oZ:{"^":"m:0;a,b,c,d,e,f"},
$0:function(){H.p_(this.a,this.b,this.c,this.d,this.e,this.f)},
p0:{"^":"m:2;a,b,c,d,e"},
$0:function(){var z,y,x,w
z=this.e
z.x=!0
if(this.d!==!0)this.a.$1(this.c)
else{y=this.a
x=H.dj()
y=x.$$2(this.b,this.c)
else{x=H.cf(x,[x,x]).bo(y)
if(x.$1(this.b)
else y.$0())}
jq:{"^":"d;"},
e5:{"^":"jq;b,a"},
b7:function(a,b){var z,y,x
z=init.globalState.z.h(0,this.a)
if(z==null)return
y=z.b
if(y.gfj())return
x=H.uc(b)
if(z.gkw()===y){y=J.D(x)
switch(y.h(x,0)){case"pause":z.fR(y.h(x,1),y.h(x,2))
break
case"resume":z.lU(y.h(x,1))
break
case"add-ondone":z.kj(y.h(x,1),y.h(x,2))
break
case"remove-ondone":z.lR(y.h(x,1))
break
case"set-errors-fatal":z.ia(y.h(x,1),y.h(x,2))
break
case"ping":z.l0(y.h(x,1),y.h(x,2),y.h(x,3))
break
case"kill":z.kZ(y.h(x,1),y.h(x,2))
break
case"getErrors":y=y.h(x,1)
z.dx.K(0,y)
break
case "stopErrors":
y=x.h(x,1)
z.dx.Y(0,y)
break
return {}

$q$: function(a,b){
  if(b==null){return !1}
  return b instanceof H.e5&&J.n(this.b,b.b)
},
a1:function(a){
  return this.b drifted={}
},
to:{
  "^":
  "m0;0,a,b",
  $0$: function(){
    var z=x.a.a
    if(!x.gfj())x.iN(0,this.b)}},
fE:{
  "^":
  "jq; b,c,a",
  b7:function(a,b){
    var z,y,x
    z=P.aj( ["command","message" ",port",this,"msg",b] )
y=new H.ca( 0,P.cE(null,P.q)),aO(z)
if(init.globalState.x===!0){init.globalState.Q.toString
self.postMessage(y)}else{x=init.globalState.ch.h(0,this.b)
if(x!==null)x.postMessage(y)}},
q:function(a,b){
  if(b==null){return !1}
  return b instanceof H.fE&&J.n(this.b,b.b)&&J.n(this.a,b.a)&&J.n(this.c,b.c)
},
a1:function(a){
  return J.r(J.r(J.v(this.b,16),J.v(this.a,8)),this.c)}},
dS:{
  "^":
  "d;a,b,c"
},
V:function(a){
  if(this.a)self.clearTimeout(z)
  else self.clearInterval(z)
},
$ispX:1,}

j4:{
  "^":
  "d;a,b,c"
},
V:function(a){
  var z
  if(self.setTimeout!=null){
    if(this.b)throw H.b(new P.w("Timer in event loop cannot be canceled."))
  }else
  z=this.c
  if(z==null){return !--init.globalState.f.b}
  if(this.a)self.clearTimeout(z)
  else self.clearInterval(z)
  this.c=null
else throw H.b(new P.w("Canceling a timer."))},

j1:function(a,b){
  if(self.setTimeout!=null){
    ++init.globalState.f.b
    this.c=self.setInterval(H.aC(new H.qW(this,b)),0,a)
  }else throw H.b(new P.w("Periodic timer."))},

(i):function(a,b){
  var z,y,x
  if(a===0){
    z=init.globalState.f.d
    y=init.globalState.d
    z.a.aC(0,new H.dc(y,new H.to(this,x),"receive")),
  }else
    if(self.setTimeout!=null){
      ++init.globalState.f.b
      this.c=self.setTimeout(H.aC(new H.qY(this,b)),0,a)
    }else throw H.b(new P.w("Timer greater than 0."))}
}

C:

$q$: function(a,b){
  var z=new H.j4(0,11,null)
  z.ii(a,b)
return z},
qX:{"^":"m:2;a,b",
$0:function(){this.a.c=null
this.b.$0()}
},
qY:{"^":"m:2;a,b",
$0:function(){this.a.c=null;--init.globalState.f.b
this.b.$0()}
},
qW:{"^":"m:0;a,b",
$0:function(){this.b.$1(this.a)}
},
bY:{"^":"d:dQ:a<",
gW:function(a){var z,y
z=this.a
y=J.o(z)
z=J.r(y.n(z,0),y.aB(z,4294967296))
y=J.bu(z)
z=J.c(J.p(y.ar(z),y.X(z,15)),4294967295)
y=J.o(z)
z=J.c(J.aw(y.at(z,y.n(z,12)),5),4294967295)
y=J.o(z)
z=J.c(J.aw(y.at(z,y.n(z,4)),2057),4294967295)
y=J.o(z)
return y.at(z,y.n(z,16)),
q:function(a,b){var z,y
if(b==null)return!1
if(b===this)return!0
if(b instanceof H.bY){z=this.a
y=b.a
return z==null?y==null:z===y)return!1}
ca:{"^":"d;a,b",
aO:function(a){var z,y,x,w,v
if(a==null)typeof a-uppercase=""string""|typeof a-uppercase=""number""|typeof a-uppercase=""boolean""return a
z=this.b
y=z.h(0,a)
if(y!=null)return["ref",y]
z.k(0,a,z.gi(z))
z=J.t(a)
if(!z.$isfa)return["buffer",a]
if(!z.$isd_)return["typed",a]
if(!z.$isV)return this.i5(a)
if(!z.$isoW){x=this.gi2()
w=z.ga9(a)
w=H.cv(w,x,H.a7(w,"e",0),null)
w=P.bm(w,0,H.a7(w,"e",0))
z=z.gbh(a)
z=H.cv(z,x,H.a7(z,"e",0),null)
return ['map', w, P.bm(z, '0', H.a7(z, 'e', 0))]
if (!z.$isp7) return this.i6(a)
if (!z.$isS) this.hy(a)
if (!z.$ispX) this.cv(a, "RawReceivePorts can't be transmitted:")
if (!z.$ise5) return this.i7(a)
if (!z.$isE) return this.i8(a)
if (!z.$ism) v = a.$static_name
if (v == null) this.cv(a, "Closures can't be transmitted:")
return ['function', v] if (!z.$isbY) return ['capability', a]
if (!a instanceof P.d) this.hy(a)
return ['dart', init.classIdExtractor(a), this.i4(init.classFieldsExtractor(a))], "$1", "$i2", 2, 0, 1,
cv: function(a, b) { throw H.b(new P.w(H.k(b == null ? "Can't transmit:" : b) + " +H.k(a)))
hy: function(a) { return this.cv(a, null) },
i5: function(a) { var z = this.i3(a)
if (!a.fixed$length) return ['fixed', z]
if (!a.fixed$length) return ['extendable', z]
if (!a.immutable$list) return ['mutable', z]
if (a.constructor == Array) return ['const', z]
this.cv(a, "Can't serialize indexable: ")
},
i3: function(a) { var z, y, x
z = []
C.c.si(z, a.length)
for (y = 0; y < a.length; ++y) { x = this.aO(a[y])
if (y > z.length) return H.a(z, y)
z[y] = x
return z },
i4: function(a) { var z
for (z = 0; z < a.length; ++z) C.c.k(a, z, this.aO(a[z]))
return a },
i6: function(a) { var z, y, x, w
if (!a.constructor & a.constructor != Object) this.cv(a, "Only plain JS Objects are supported:")
z = Object.keys(a)
y = []
C.c.si(y, z.length)
for (x = 0; x < z.length; ++x) { w = this.aO(a[z[x]])
if (x >= y.length) return H.a(y, x)
y[x] = w
return ['js-object', z, y] },
i8: function(a) { if (this.a) return ['sendport', a, b, a, a, c]
return ['raw sendport', a] },
i7: function(a) { if (this.a) return ['sendport', init.globalState.b, a, a, b, gdQ()]
return ['raw sendport', a] },
e2: ['^': 'd', 'a', 'b'],
bs: function(a) { var z, y, x, w, v, u
if (a == null) typeof a == 'string' || typeof a == 'number' || typeof a == 'boolean') return a
if (typeof a == 'object') typeof a == null && a.constructor != Array) throw H.b(P.N("Bad serialized message: " + H.k(a)))
switch (C.c.gkS(a)) { case 'ref': if (1 >= a.length) return H.a(a[1])
z = a[1]
y = this.b
if (z >>> 0 != z) [z = y.length] return H.a(y, z)
return y[z]
case "buffer": if(1>=a.length) return H.a(a,1)
x=a[1]
this.b.push(x)
return x

case "typed": if(1>=a.length) return H.a(a,1)
x=a[1]
this.b.push(x)
return x

case "fixed": if(1>=a.length) return H.a(a,1)
x=a[1]
this.b.push(x)
y=H.f(this.cc(x),[null])
y.fixed$length=Array
return y

case "extendable": if(1>=a.length) return H.a(a,1)
x=a[1]
this.b.push(x)
return H.f(this.cc(x),[null])

case "mutable": if(1>=a.length) return H.a(a,1)
x=a[1]
this.b.push(x)
return this.cc(x)

case "const": if(1>=a.length) return H.a(a,1)
x=a[1]
this.b.push(x)
y=H.f(this.cc(x),[null])
y.fixed$length=Array
return y

case "map": return this.kJ(a)
case "sendport": return this.kK(a)
case "raw sendport": if(1>=a.length) return H.a(a,1)
x=a[1]
this.b.push(x)
return x

case "js-object": return this.kI(a)
case "function": if(1>=a.length) return H.a(a,1)
x=init.globalFunctions[a[1]]()
this.b.push(x)
return x

case "capability": if(1>=a.length) return H.a(a,1)
return new H.bY(a[1])
case "dart": y=a.length
if(1>=y) return H.a(a,1)
w=a[1]
if(2>=y) return H.a(a,2)
v=a[2]
u=init.instanceFromClassId(w)
this.b.push(u)
this.cc(v)
return init.initializeEmptyInstance(w,u,v)
default:throw H.b("couldn't deserialize: "+H.k(a))],"$1","gkH",2,0,1],
c:cc:function(a){var z,y,x
z=J.D(a)
y=0
while(!0){x=z.gi(a)
if(typeof x!="number")return H.i(x)
if(!(y<x))break
z.k(a,y,this.bs(z.h(a,y)));++y}return a},
kJ:function(a){var z,y,x,w,v,u
z=a.length
if(1>=z)return H.a(a,1)
y=a[1]
if(2>=z)return H.a(a,2)
x=a[2]
w=P.a5()
this.b.push(w)
y=J.9(y,this.gkH()).az(0)
for(z=J.D(y),v=J.D(x),u=0;u<z.gi(y);++u){if(u>=y.length)return H.a(y,u)
w.k(0,y[u],this.bs(v.h(x,u)))}return w},
kK:function(a){var z,y,x,w,v,u,t
z=a.length
if(1>=z)return H.a(a,1)
y=a[1]
if(2>=z)return H.a(a,2)
x=a[2]
if(3>=z)return H.a(a,3)
w=a[3]
if(J.n(y,init.globalState.b)){v=init.globalState.z.h(0,x)
if(v==null)return
u=v.ev(w)
if(u==null)return
t=new H.e5(u,x)}else t=new H.fE(y,w,x)
this.b.push(t)
return t},
kI:function(a){var z,y,x,w,v,u,t
z=a.length
if(1>=z)return H.a(a,1)
y=a[1]
if(2>=z)return H.a(a,2)
x=a[2]
if(3>=z)return H.a(a,3)
w=a[3]
if(J.n(y,init.globalState.b))v=init.globalState.z.h(0,x)
if(v==null)return
u=v.ev(w)
if(u==null)return
t=new H.e5(u,x)}else t=new H.fE(y,w,x)
this.b.push(t)
return t}
if(typeof t!=='number')return H.i(t)
if(!u)break
w[z.h(y,u)]=this.hs(v.h(x,u))+u;return w
},]["","",H,{"^":"app"},
kn:function(a){return init.getTypeFromName(a)},
uW:function(a){return init.types[a]},
kM:function(a,b){var z
if(b!==null){z=b.x
if(z!==null)return z}return!!J.t(a).$isa_},
k:function(a){var z
if(typeof a==='string')return a
if(typeof a==='number'){if(a!==0)return''+a}else if(!0===a)return"true"
else if(!1===a)return"false"
else if(a===null)return"null"
z=J.aR(a)
if(typeof z!=='string')throw H.b(H.X(a))
return z},
aM:function(a){var z=a.$identityHash
if(z===null){z=Math.random()*0x3fffffff|0
a.$identityHash=z}return z},
fD:function(a,b){if(b===null)throw H.b(new P.ai(a,null,null))
return b.$1(a)},
aA:function(a,b,c){var z,y,x,w,v,u,t,s
z=J.t(a)
y=z.constructor
if(typeof y==='function'){x=y.name
w=typeof x==='string'?y:null}else w=null
if(w===null||z===C.a_||!!J.t(a).$isc6){v=C.y(a)
if(v==="Object"){u=a.constructor
if(typeof u==='function'){t=String(u).match(/\^s*function\s*\([^\w$]*\)/)
s=t===null?null:t[1]
if(t==="string"&!\w+$/.test(s))w=s}if(w===null)w=v}else w=v
w=w
if(w.length>1&!C.a(t.w,0)===36)w=C.a.ac(w,1)
return function(b,c){return b.replace(/[^<, >]+/g,function(d){return c[d][d]})(w+H.fP(H.ee(a),0,null),init.mangledGlobalNames)},
if(b!==null)return parseInt(a,10)
if(z[2]!==null)return parseInt(a,16)
return H.fD(a,c)
if(b<2|b>36)throw H.b(P.S(b,2,36,"radix",null))
if(b===10&&y!==null)x=y<10?47+b:86+b
w=z[1]
for(v=w.length,u=0;u<v;++u)if((C.a.t(w,0)|32)>x)return H.fD(a,c)
return parseInt(a,b)},
cx:function(a){var z,y,x,w,v,u,t,s
z=J.t(a)
y=z.constructor
if(typeof y==='function'& x=y.name
w=typeof x==='string'?x:null}else w=null
if(w===null||z===C.a_||!!J.t(a).$isc6){v=C.y(a)
if(v==="Object"){u=a.constructor
if(typeof u==='function'){t=String(u).match(/\^s*function\s*\([^\w$]*\)/)
s=t===null?null:t[1]
if(t==="string"&!\w+$/.test(s))w=s}if(w===null)w=v}else w=v
w=w
if(w.length>1&!C.a(t.w,0)===36)w=C.a.ac(w,1)
return function(b,c){return b.replace(/[^<, >]+/g,function(d){return c[d][d]})(w+H.fP(H.ee(a),0,null),init.mangledGlobalNames)},
if(a instanceof H.eW)return z.$1(a.a)
if(typeof a!="object")return a
if("dartException" in a) return z.$1(a.dartException)
else if(!(typeof a.message="number")){x=a.number
w=x&65535
if(C.b.a._(x,16)&8191)==10 switch(w){case 438:return z.$1(H.f._(H.k(y)+" (Error "+w+")",null))
case 445:case 5007:v=H.k(y)+" (Error "+w+)
return z.$1(new H.it(v,null))}
if(a instanceof TypeError){u=$.$get$j6()
t=$.$get$j7()
s=$.$get$j8()
r=$.$get$j9()
qu=$.$get$jd()
p=$.$get$je()
o=$.$get$jb()
$p=$.$get$ja()
n=$.$get$ig()
m=$.$get$jjf()
l=u.aT(y)
if(l!=null)return z.$1(H.f._(y,l))
else{l=t.aT(y)
if(l!=null){l.method="call"
return z.$1(H.f._(y,l))}
else{l=r.aT(y)
if(l!=null){l=q.aT(y)
if(l!=null){l=p.aT(y)
if(l!=null){l=0.aT(y)
if(l!=null){l=r.aT(y)
if(l!=null){l=n.aT(y)
if(l!=null){l=m.aT(y)
v={!null}else v=!0}else v=!0}else v=!0}else v=!0}else v=!0}else v=!0
if(v) return new P.iX()
y=function(b){return String(b)}
return null}(a)
return z.$1(new P.bf(!1,null,null,typeof y==="string"?y.replace(/\^.RangeError:.s*\","y)"y))}
if(a instanceof RangeError){if(typeof y==="string"&&y.indexOf("call stack")!=-1) return new P.iX()
y=function(b){try{return String(b)}catch(k){}
return null}(a)
return z.$1(new P.bf(!1,null,null,typeof y==="string"?y.replace(/\^RangeError:.s*\","y)"y))}
if(a instanceof InternalError){if(typeof y==="string"&&y==="too much recursion") return new P.iX()
return a},
ae:function(a){ var z
if(a instanceof H.eW)return a.a
if(a==null) return new H.jI(a,null)
z=a.$cachedTrace
if(z==null) return a.$cachedTrace=new H.jI(a,null),
vf:function(a){if(a==null||typeof a!="object")return J.ao(a)
else return H.aM(a)},
kJ:function(a,b){ var z,y,x,w
z = a.length
for (y = 0; y < z; y = w) { x = y + 1
w = x + 1
b.k(0, a[y], a[x])
} return b,
v5:function(a, b, c, d, e, f, g) {
switch (c) {
case 0: return H.dg(b, new H.v6(a))
case 1: return H.dg(b, new H.v7(a, d))
case 2: return H.dg(b, new H.v8(a, d, e))
case 3: return H.dg(b, new H.v9(a, d, e, f))
case 4: return H.dg(b, new H.va(a, d, e, f, g))
} throw H.b(P.b1("Unsupported number of arguments for wrapped
closure"));
aC:function(a, b) {
var z
if (a == null) return
z = a.$identity
if (!z) return z
z = function(c, d, e, f) {
return function(g, h, i, j) {
return f(c, c, d, g, h, i, j)
}(a, b, init.globalState.d, H.v5)
a.$identity = z
return z,
m2:function(a, b, c, d, e, f) {
var z, y, x, w, v, u, t, s, r, q, p, o, n, m
z = b[0]
y = zSCALLNAME
if (!!J.t(c).Sish) { z.$reflectionInfo = c
x = H.pZ(z).r } else x = c
w = d ? Object.create(new H.qv().constructor.prototype) : Object.create(new H.et(null, null, null, null).constructor.prototype)
w.$initialize = w.constructor
if (d) v = function() {
this.$initialize()
} else {
u = $.b9
$.b9 = J.p(u, 1)
u = new Function("a,b,c,d"+u,"this.$initialize(a,b,c,d"+u+)")
v = u
w.constructor = v
v.prototype = w
u = !d
if (u) { t = e.length == 1 && !0
s = H.he(a, z, t)
s.$reflectionInfo = c } else { w.$static_name = f
s = z
t = !1
if (typeof x == "number") r = function(g, h) {
return function() {
return g(h)
}(H.uW, x)
else if (u & typeof x == "function")
q = t ? H.hd : H.eu
r = function(g, h) {
return function() {
return g.apply({$receiver: h(this), arguments})
}(x, q)
} else throw H.b("Error in
reflectionInfo."
)
w.$signature = r
w[y] = s
for (u = b.length, p = 1; p < u; ++p) { o = b[p]
if (o) m = d ? o.H.he(a, o, t)
if (n) m = n \} w["call" ] = s
w.$requiredArgCount = z.$requiredArgCount
w.$defaultValues = z.$defaultValues
return v},
m_.function(a,b,c,d){ var z=H.eu
switch(b?-1:a){case 0:return function(e,f){return function(){return f(this)[e]()}}(c,z)
case 1:return function(e,f){return function(g){return f(this)[e][g]()}}(c,z)
case 2:return function(e,f){return function(g,h){return f(this)[e][g,h]()}}(c,z)
case 3:return function(e,f){return function(g,h,i){return f(this)[e][g,h,i]()}}(c,z)
case 4:return function(e,f){return function(g,h,i,j){return f(this)[e][g,h,i,j]()}}(c,z)
case 5:return function(e,f){return function(g,h,i,j,k){return f(this)[e][g,h,i,j,k]()}}(c,z)
default:return function(e,f){return function(){return e.apply(f(this),arguments)}}(d,z)},
he:function(a,b,c){var z,y,x,w,v,u,t
if(c)return H.m1(a,b)
z=b.$stubName
y=b.length
x=a[z]
w=b==null?'x=null':b===x
v=!w||y>=27
if(v)return H.m_(y,!w,z,b)
if(y===0){w=$.b9
$.b9=J.p(w,1)
u="self"+H.k(w)
w="return function(){return this."+u++"= this;"}
v=$.cp
if(v==null){v=H.du("self")
$.cp=v
return new Function(w+H.k(v)+";return "+u++"."+H.k(z)+"();;}())";t="abcdefghijklmnopqrstuvwxyz".split("").splice(0,y).join(""")
w=$.b9
$.b9=J.p(w,1)
t+=H.k(w)
w="return function("+t+"){return this;")
v=$.cp
if(v==null){v=H.du("self")
$.cp=v
return new Function(w+H.k(v)+"."+H.k(z)+"("+t+");;})()
}
return function(e,f,g){return function(h,i,j,k){return f(this)[e][g,h,i,j,k]()}}(c,z,y)
default:return function(e,f,g,h){return function(){h=[g(this)]
Array.prototype.push.apply(h,arguments)
return e.apply(f(this),arguments)}}(d,z,y)},
m1:function(a,b){ var z,y,x,w,v,u,t
z=H.lM()
y=H.hd
switch(b?-1:a){case 0:throw H.b(new H.qa("Intercepted function with no arguments.")))
if(y==null){y=H.du("receiver")
$.hc=y}
x=b.$stubName
w=b.length
v=a[x]
u=b==null?v==null:b===v
t=!u||w>=28
if(t)return H.m0(w,!u,x,b)
if(w==1){y="return function(){return this."+H.k(z)+"."+H.k(x)+"("+H.k(y)+");"
}
u=$.b9
$.b9=J.p(u,1)
return new Function(y+H.k(u)+"{()}}
if(!J.t(c).$ish){c.fixed$length=Array
z=c}else z=c
return H.m2(a,b,z,!!d,e,f)},
ky:function(a){if(typeof a=="string"||a==null)return a
throw H.$v(H.dv(H.$v(a),"String"))},
vh:function(a,b){var z=J.D(b)
throw H.$v(H.dv(H.$v(a),z.H(b,3,z.$v(b))))},
aK:function(a,b){var z
if(a!=null)z=(typeof a=="object"||typeof a=="function")&&J.t(a)[b]
else z=!0
if(z)return a
H.vh(a,b)},
eg:function(a){if(!!J.t(a).$ish||a==null)return a
throw H.$v(H.dv(H.$v(a),"List"))},
vq:function(a){throw H.$v(new P.$v("Cyclic initialization for static "+H.k(a)))},
cf:function(a,b,c){return new H.qb(a,b,c,null)},
kf:function(a,b){var z=a.builtin$cls
if(b==null||b.length===0)return new H.qd(z)
return new H.qc(z,b,null)},
dj:function(){return C.L},
ek:function(){return(Math.random()*0x100000000>>0)+(Math.random()*0x100000000>>0)*4294967296},
f:function(a,b){a.$builtinTypeInfo=b
return a},
ee:function(a){if(a==null)return a.$builtinTypeInfo},
kk:function(a,b){return H.fS(a[$as+H.k(b)],H.ee(a))},
a7:function(a,b,c){var z=H.kk(a,b)
return z==null?null:z[c]}
J:function(a,b){var z=H.ee(a)
return z==null?null:z[b]},
fR:function(a,b){if(a==null)return"dynamic"
else if(typeof a==="object"&a!==null&.a.constructor===Array)return a[0].builtin$cls+H.fP(a,1,b)
else if(typeof a==="function")return a.builtin$cls
else if(typeof a==="number"&Math.floor(a)===a)return C.b.p(a)
else return},
fP:function(a,b,c){var z,y,x,v,u
else if(typeof a==="object"&a!==null&.a.constructor===Array)return a[0].builtin$cls+H.fP(a,1,b)
else return},
fP:function(a,b,c){var z,y,x,w,v,u
else if(typeof a==="object"&a!==null&.a.constructor===Array)return a[0].builtin$cls+H.fP(a,1,b)
else return},
fP:function(a,b,c){var z,y,x,w,v,u
else if(typeof a==="object"&a!==null&.a.constructor===Array)return a[0].builtin$cls+H.fP(a,1,b)
else return},
fP:function(a,b,c){var z,y,x,w,v,u
else if(typeof a==="object"&a!==null&.a.constructor===Array)return a[0].builtin$cls+H.fP(a,1,b)
else return},
fP:function(a,b,c){var z,y,x,w,v,u
else if(typeof a==="object"&a!==null&.a.constructor===Array)return a[0].builtin$cls+H.fP(a,1,b)
else return},
fP:function(a,b,c){var z,y,x,w,v,u
else if(typeof a==="object"&a!==null&.a.constructor===Array)return a[0].builtin$cls+H.fP(a,1,b)
else return},
fP:function(a,b,c){var z,y,x,w,v,u
else if(typeof a==="object"&a!==null&.a.constructor===Array)return a[0].builtin$cls+H.fP(a,1,b)
else return},
fP:function(a,b,c){var z,y,x,w,v,u
else if(typeof a==="object"&a!==null&.a.constructor===Array)return a[0].builtin$cls+H.fP(a,1,b)
else return},
fP:function(a,b,c){var z,y,x,w,v,u
el
if(z&&a==null)return!0
if(z)return c
if(a==null)return!1
y=a.length
x=b.length
if(c){if(y<x)return!1}else if(y!=x)return!1
for(w=0;w<x;++w){z=a[w]
v=b[w]
if(!(H.aO(z,v)||H.aO(v,z)))return!1}
return!0},

uA:function(a,b){var z,y,x,w,v,u
if(b==null)return!0
if(a==null)return!1
z=Object.getOwnPropertyNames(b)
z.fixed$length=Array
y=z
for(z=y.length,x=0;x<z;++x){w=y[x]
if(!Object.hasOwnProperty.call(a,w))return!1
v=b[w]
u=a[w]
if(!(H.aO(v,u)||H.aO(u,v)))return!1}
return!0},

kl:function(a,b){var z,y,x,w,v,u,t,s,r,q,p,o,n,m,l
if(!('func' in a))return!1
if("v" in a){if(!("v" in b)&&"ret" in b)return!1}else if(!("v" in b)){z=a.ret
y=b.ret
if(!(H.aO(z,y)||H.aO(y,z)))return!1}x=a.args
w=b.args
v=a.opt
u=b.opt
t=x!=null?x.length:0
s=w!=null?w.length:0
r=v!=null?v.length:0
q=u!=null?u.length:0
if(t>s)return!1
if(t+r<s+q)return!1
if(t===s){if(!H.ka(x,w,!1))return!1
if(!H.ka(v,u,!0))return!1}else{for(p=0;p<t;++p){o=x[p]
n=w[p]
if(!(H.aO(o,n)||H.aO(n,o)))return!1}for(m=p,l=0;m<s;++l,++m){o=v[l]
n=w[m]
if(!(H.aO(o,n)||H.aO(n,o)))return!1}for(m=0;m<q;++l,++m){o=v[l]
n=u[m]
if(!(H.aO(o,n)||H.aO(n,o)))return!1}}return H.uA(a.named,b.named),

za:function(a){var z=$.fN
return"Instance of "+(z==null?"<Unknown>":z.$1(a))},
z4:function(a,b,c){Object.defineProperty(a,b,{value:c,enumerable:false,writable:true,configurable:true})},
vd:function(a){var z,y,x,w,v,u
z=$.fN.$1(a)
return this.b.hasOwnProperty(b)},
h:function(a,b){if(!this.D(0,b))return
return this.fe(b)},
fe:function(a){return this.b[a]},
O:function(a,b){var z,y,x,w
z=this.c
for(y=z.length,x=0;x<y;++x){w=z[x]
b.$2(w,this.fe(w))},
g$a9:function(a){return H.f(new H.rH(this),[H.J(this,0)])},
rH:{"^":"c:a",
gL:function(a){var z=x.new J.cN(z,0)},
O:function(a,b){var z=return new J.cN(x,0)},
gi:function(a){return this.a.c},
pY:{"^":"d:a,W:b>,c,d,e,f,r,x",C:{
pZ:function(a){var z,y,x
z=a.$reflectionInfo
if(z==null)return
z=z
y=z[0]
x=z[1]
return new H.pY(a,z,(y&1)===1,y>>1,x>>1,(x&1)===1,z[2],null)}},
p_:{"^":"d:a,b,c,d,e,f",
arT:function(a){var z,y,x
z=new RegExp(this.a).exec(a)
if(z==null)return
y=Object.create(null)
x=this.b
if(x!==-1)y.arguments=z[x+1]
x=this.c
if(x!==-1)y.argumentsExpr=z[x+1]
x=this.d
if(x!==-1)y.expr=z[x+1]
x=this.e
if(x!==-1)y.method=z[x+1]
x=this.f
if(x!==-1)y.receiver=z[x+1]
return y},
C:{
bd:function(a){var z,y,x,w,v,u
a=a.replace(String({}),'$receiver$').replace(/\[[\]{}()*+?.\^$|]/g,\$&
)
z=a.match(/\$\[a-zA-Z\]+\$/
)y=z.indexOf('$arguments$
)x=z.indexOf('$argumentsExpr$
)w=z.indexOf('$expr$
)v=z.indexOf('$method$
)u=z.indexOf('$receiver$
)
return new H.r_(a.replace(new RegExp('\\\$arguments\\\$','g'),'((?:x|[^x])*)').replace(new RegExp('\\\$argumentsExpr\\\$','g'),'((?:x|[^x])*)').replace(new RegExp('\\\$expr\\\$','g'),'((?:x|[^x])*)').replace(new RegExp('\\\$method\\\$','g'),'((?:x|[^x])*)').replace(new RegExp('\\\$receiver\\\$','g'),'((?:x|[^x])*)'),y,x,w,v,u)},
dZ:function(a){return function($expr$){var $argumentsExpr$='$arguments$'
try{$expr$.$method$($argumentsExpr$)}catch(z){return z.message}}(a)},
jc:function(a){return function($expr$){try{$expr$.$method$}catch(z){return z.message}}(a)}}},
it:{"^":"as;a,b",
p:function(a){var z=this.b
if(z==null)return"NullError: "+H.k(this.a)
return"NullError: method not found: "+H.k(z)+"" on null""},
pc:{"^":"as:a,b,c",
p:function(a){var z,y
z=this.b
if(z==null)return"NoSuchMethodError: "+H.k(this.a)
y=this.c
if(y==null)return"NoSuchMethodError: method not found: "+H.k(z)+""("+H.k(this.a)+")"
return"NoSuchMethodError: method not found: "+H.k(z)+"" on "+H.k(y)+""("+H.k(this.a)+")""},
C:{
f_:function(a,b){var z,y
z=b==null
y=z?null:b.method
return new H.pc(a,y,z?null:b.receiver)}},
r1:{"^":"as;a",
p:function(a){var z=this.a
return z.length===0?"Error":z.length===0?"Error":"+z"},
eW:{"^":"d;aA:b<",
v6:{"^":"m:0;a",
$0:function(){return this.a.$0()}}},
v7:{"^":"m:0;a,b",
v8:{"^":"m:0;a,b,c",
v9:{"^":"m:0;a,b,c,d",
$0:function(){return this.a.$3(this.b,this.c)}}},
va:{"^":"m:0,a,b,c,d,e"},
$0:function(){return this.a.$4(this.b,this.c,this.d,this.e)}},
m:{"^":"d;",
p:function(a){return"Closure "+H.cx(this)+""},
ghJ:function(){return this},
Sishk:1,
ghJ:function(){return this},
j0:{"^":m;"},
qV:{"^":j0;"},
p:function(a){var z=this.$static_name
if(z===null)return"Closure of unknown static method"
return"Closure "+z+""},
et:{"^":j0:a,b,c,d;",
q:function(a,b){if(b===null)return!1
if(this===b)return!0
if(!(b instanceof H.et))return!1
return this.a===b.a&&this.b===b.b&&this.c===b.c},
gal1:function(a){var z,y
z=this.c
if(z===null)y=H.aM(this.a)
else y=typeof z!="object"?J.ao(z):H.aM(z)
return J.r(y,H.aM(this.b))},
p:function(a){var z=this.c
if(z===null)z=this.a
return"Closure "+H.k(this.d)+" of "+H.dQ(z)},
C:{
eu:function(a){return a.a},
hd:function(a){return a.c},
lM:function(){var z=$.cp
if(z===null){z=H.du("self")
$.cp=z}return z},
du:function(a){var z,y,x,w,v
z=new H.et("self","target","receiver","name")
y=Object.getOwnPropertyNames(z)
y.fixed$length=Array
x=y
for(y=x.length,w=0;w<y;++w){v=x[w]
if(z[v]===a)return v}),("^":as:ab:a>"},
p:function(a){return this.a},
C:{
dv:function(a,b){return new H.JY("CastError: Casting value of type "+H.k(a)+" to incompatible type "+H.k(b))})},
qa:{"^":as:ab:a>"},
p:function(a){return"RuntimeError: "+H.k(this.a)},
dV:{"^":d;"},
qb:{"^":dV:a,b,c,d;",
bo:function(a){var z=this.jc(a)
return z===null?!1:H.kl(z,this.b6())},
jc:function(a){var z=J.t(a)
return "$signature" in z?z.$signature():null,
b6:function(){ var z,y,x,w,v,u,t
 z={func:"dynafunc"}
y=this.a
x=J.t(y)
if(!x.$.isyx)z.v=true
else if(!x.$.ishM)z.ret=y.b6()
y=this.b
if(y!=null&&y.length===0)z.args=H.iN(y)
y=this.c
if(y!=null&&y.length===0)z.opt=H.iN(y)
y=this.d
if(y!=null){w=Object.create(null)
v=H.ki(y)
for(x=v.length,u=0;u<x;++u){t=v[u]
w[t]=y[t].b6()}z.named=w}return z,
p:function(a){var z,y,x,w,v,u,t,s
z=this.b
if(z!=null)for(y=z.length,x=",",w=!1,v=0;v<y;++v,w=!0){u=z[v]
if(w)x="","
x+=H.k(u)}else{x=""}
if(z!=null)&z.length===0}{x=(w?x++",",x")+"[
" for(y=z.length,w=!1,v=0;v<y;++v,w=!0){u=z[v]
if(w)x="","
x+=H.k(u)}else{x=H.k(y)}
}
return x+" -> "+H.k(this.a)),
C:{
iN:function(a){ var z,y,x
a=a
z=[]
for(y=a.length,x=0;x<z.length;++x)z.push(a[x].b6())
return z} },
hM: {"^": "dV;",
p:function(a){ return "dynamic"},
b6:function(){ return } },
qd: {"^": "dV;a",
b6:function(){ var z,y
z=this.a
y=H.kn(z)
if(y==null)throw H.b("no type for "+z+""");
return y},
p:function(a){ return this.a },
qc: {"^": "dV;a,b,c"},
"Open Source Used In Edge and Fog Processing Module 1.6.0"

554

b6: function() { var z, y, x, w
z = this.c
if(z !== null) return z
z = this.a
y = [H.kn(z)]
if(y.length > 0) return H.a(y, 0)
if(y[0] === null) throw H.b('no type for "<z"...>")
for(z = this.b, x = z.length, w = 0; w < z.length; z.length === x || (0, H.an)(z), ++w)
y.push(z[w].b6())
this.c = y
return y},
p: function(a) { var z = this.b
return this.a + "<z"+(z&&C.c).bP(z, ", "+"">" ),
a0: {"^": "d;a,b,c,d,e,f","},
gi: function(a) { return this.a},
gG: function(a) { return this.a === 0},
gah: function(a) { return this.GG(a),
 ga9: function(a) { return H.f(new H.pn(this), [H.J(this, 0)])},
gbh: function(a) { return H.cv(this.ga9(this), new H.pb(this), H.J(this, 0), H.J(this, 1))},
D: function(a, b) { var z, y
if(typeof b === "string") { z = this.b
if(z !== null) return !1
return this.f9(z, b) else if(typeof b === "number" && (b & 0x3ffffff) === b) { y = this.c
if(y !== null) return !1
return this.f9(y, b) else return this.l8(b),
l8: function(a) { var z = this.d
if(z !== null) return !1
return this.cl(this.dL(z, this.ck(a)), a) === 0},
aF: function(a, b) { b.O(0, new H.pa(this))},
h: function(a, b) { var z, y, x
if(typeof b === "string") { z = this.b
if(z !== null) return
y = this.c8(z, b)
return y = null
null: y.gbt() else if(typeof b === "number" && (b & 0x3ffffff) === b) { x = this.c
if(x !== null) return
y = this.c8(x, b)
return y = null
null: y.gbt() else return this.l9(b),
l9: function(a) { var z, y, x
z = this.d
if(z !== null) return
y = this.cL(z, this.ck(a))
x = this.cl(y, a)
if(x < 0) return
return y[x].gbt(),
k: function(a, b, c) { var z, y, w, v, u
if(typeof b === "string") { z = this.b
if(z !== null) { z = this.dV()}
this.b = z | this.f3(z, b, c) else if(typeof b === "number" && (b & 0x3ffffff) === b) { y = this.c
if(y !== null) { y = this.dV()}}
this.c=y}this.f3(y,b,c)}else{x=this.d
if(x==null){x=this.dV()}
this.d=x}w=this.ck(b)
v=this.cL(x,w)
if(v==null)this.dZ(x,w,[this.dW(b,c)])
else{u=this.cL(v,b)
if(u>=0)v[u].sbt(c)
else v.push(this.dW(b,c))}
ho:function(a,b,c){var z
if(this.D(0,b))return this.h(0,b)
z=c.$0()
this.k(0,b,z)
return z},
Y:function(a,b){if(typeof b==="string")return this.fv(this.b,b)
else if(typeof b==="number"&&(b&0x3ffffff)===b)return this.fv(this.c,b)
else return this.la(b)},
lafun(a,b,c){var z,y,x,w
z=this.d
if(z==null)return
y=this.cL(z,this.ck(a))
x=this.cl(y,a)
if(x<0)return
w=y.splice(x,1)[0]
this.fH(w)
return w.gbt()},
ag:function(a){if(this.a>0){this.f=null
this.e=null
this.d=null
this.c=null
this.b=null
this.a=0
this.r=this.r+1&67108863}},
O:function(a,b){var z,y
z=this.e
y=this.r
for(;z!=null;){b.$2(z.a,z.b)
if(y!==this.r)throw H.b(new P.al(this))
z=z.c}
}
f3:function(a,b,c){var z=this.c8(a,b)
if(z==null)this.dZ(a,b,this.dW(b,c))
else z.sbt(c)},
fv:function(a,b){var z
if(a==null)return
z=this.c8(a,b)
if(z==null)return
this.fH(z)
this.fb(a,b)
return z.gbt()},

Open Source Used In Edge and Fog Processing Module 1.6.0

555
dW:function(a,b){ var z,y
  z=new H.pm(a,b,null,null)
  if(this.e==null){ this.f=z
    this.e=z }else{ y=this.f
    z.d=y
    y.c=z
    this.f=z }++this.a
  this.r=this.r+1&67108863
  return z },
flH:function(a){ var z,y
  z=a.giP()
  y=a.c
  if(z==null)this.e=y
  else z.c=y
  if(y==null)this.f=z
  else y.d=z--this.a
  this.r=this.r+1&67108863 },
ck:function(a){ return J.ao(a)&0x3ffffff },
cl:function(a,b){ var z,y
  if(a==null)return-1
  z=a.length
  for(y=0;y<z;++y)if(J.n(a[y].ghb(),b))return y
  return-1 },
p:function(a){ return P.I7(this) },
c8:function(a,b){ return a[b] },
cL:function(a,b){ return a[b] },
dZ:function(a,b,c){ a[b]=c },
fb:function(a,b){ delete a[b] },
f9:function(a,b){ return this.c8(a,b)!=null },
dV:function(){ var z=Object.create(null)
  this.dZ(z,"<non-identifier-key>"),z
  this.fb(z,"<non-identifier-key>" )
  return z },
$i0W:1,
$i0U:1,
$sasU:null,
C:{
eZ:function(a,b){ return H.f(new H.a0(0,null,null,null,null,0),[a,b]) } },
pb:"^^":"m:1;a",
$p1:function(a){ return this.a.h(0,a) },
pa:"^^":"m;a",
$p2:function(a,b){[this.a,k(0,a,b)] },
$psignature:function(){ return H.aX(function(a,b){return {func:1.args:[a,b] }},this.a,"a0") },
$pm:"^^":"d:hb:a<,bt:b@,c,iP:d<"",
$pn:"^^":"e:a",
gi:function(a){ return this.a.a },
$gG:function(a){ return this.a.a===0 },
$gL:function(a){ var z,y
z=this.a
y=new H.po(z,z.r,null,null)
y.c=z.e
return y,

aa:function(a,b){return this.a.D(0,b)},

O:function(a,b){var z,y,x
z=this.a
y=z.e
x=z.r
for(;y!=null;){b.$1(y.a)
if(x!==z.r)throw H.b(new P.al(z))
y=y.c}

$isu:1,

po:{"^":"d;a,b,c,d",
gF:function(){return this.d},
w:function(){var z=this.a
y=z.e
x=z.r
for(;y!=null;){b.$1(y.a)
if(x!==z.r)throw H.b(new P.al(z))
else{z=this.c
if(z===null){this.d=null
return!1}else{this.d=z.a
this.c=z.c
return!1)}}}
,v0:{"^":"m:1;a",
$1:function(a){return this.a(a)}
},
v1:{"^":"m:44;a",
$2:function(a,b){return this.a(a,b)}
},
v2:{"^":"m:10;a",
$1:function(a){return this.a(a)}
,eX:{"^":"d;a,b,c,d",
p:function(a){return"RegExp/"+this.a.a+"/"},
gjw:function(){var z=this.c
if(z!=null)return z
z=H.dK(this.a,z.multiline,!z.ignoreCase,!0)
this.c=z
return z},
gjv:function(){var z=this.d
if(z!=null)return z
z=H.dK(this.a+"(|)",z.multiline,!z.ignoreCase,!0)
this.d=z
return z},
kT:function(a){var z=this.b.exec(H.be(a))
if(z===null)return
return new H.ft(this,z)
,e5:function(a,b,c){H.be(b)
H.aJ(c)
if(c>b.length)throw H.b(P.S(c,0,b.length,null,null))}
z=x.b
y=z.index
if(0>=z.length)return H.a(z,0)
w=J.y(z[0])
if(typeof w!="number")return H.i(w)
v=y+w
this.c=z.index===v?v+v+1:v
return!0}} this.d=null
this.b=null
return!1},
iZ:{"^":"d;a,b,c,",
h:function(a,b){if(!J.n(b,0))H.x(P.d4(b,null,null))
return this.c}},{
tE:{"^":"e;a,b,c",
gL:function(a){return new H.jL(this.a,this.b,this.c,null)}},
$ase:function(){return[0]}
jL:{"^":"d;a,b,c,d",
w:function(){var z,y,x,w,v,u,t
z=this.c
y=this.b
x=y.length
w=this.a
v=w.length
if(z+x>v){this.d=null
return!1}u=w.indexOf(y,z)
if(u<0){this.c=v+1
this.d=null
return!1}t=u+x
this.d=new H.iZ(u,w,y)
this.c=t===this.c?t+1:t
return!0}},
gF:function(){return this.d}},{["","",",H,{"^":",
ki:function(a){var z=H.f(a?Object.keys(a):[]),[null]}
z.fixed$length=Array
return z}},{["","",",H,{"^":",
ej:function(a){if(typeof dartPrint=="function"){dartPrint(a)
return}if(typeof console=="function")
{console.log(a)
return}if(typeof window=="function")
{return}if(typeof print=="function")
{print(a)
return}throw"Unable to print message:\" +String(a))}
},
a6:function(a){if(typeof a!="number"||Math.floor(a)===a)throw H.b(P.N("Invalid length "+H.k(a))}
return a},
au:function(a,b,c){if(typeof b!="number"||Math.floor(b)===b)throw H.b(P.N("Invalid view offsetInBytes "+H.k(b))}
if(c!==null&&typeof c!="number"||Math.floor(c)!===c)throw H.b(P.N("Invalid view length "+H.k(c))},
b5:function(a){var z,y,x,w,v
z=J.t(a)
if(!z.$isV)return a
y = z.gi(a)
if (typeof y !== "number") return H.i(y)
x = new Array(y)
x.fixed$length = Array
y = x.length
w = 0
while (!0) { v = z.gi(a)
  if (typeof v !== "number") return H.i(v)
  if (!v < v) break
  v = z.h(a, w)
  if (w > y) return H.a(x, w)
x[w] = v; w++
return x},
aU: function(a, b, c) { H.au(a, b, c)
return c == null ? new DataView(a, b) : new DataView(a, b, c)},
pI: function(a) { return new Uint16Array(H.b5(a))},
c4: function(a, b, c) { H.au(a, b, c)
return c == null ? new Uint8Array(a, b) : new Uint8Array(a, b, c)},
bs: function(a, b, c) { var z
if (!a >>> 0 !== a) if (b == null) z = a > c
else z = b >>> 0 !== b | a > b | b > c
else z = 0
if (z) throw H.b(H.uU(a, b, c))
if (b == null) return c
return b},
fa: {"^": "l;"},
ko: function(a, b, c) { return H.c4(a, b, c)},
Sisfa: 1,
Sisew: 1,
"%": "ArrayBuffer"},
d_: {"^": "d_,e9:buffer=,le:byteLength="},
jo: function(a, b, c, d) { if (typeof b !== "number" || Math.floor(b) !== b) throw H.b(P.aL(b, d, "Invalid list position"))
else throw H.b(P.S(b, 0, c, d, null))},
f5: function(a, b, c, d) { if (b >>> 0 !== b | b > c) this.jo(a, b, c, d)},
Sisd_: 1,
Sisaw: 1,
"%": "ArrayBufferView:fb[p|l|r|d0|i|q|is|b|n]",
x4: {"^": "d_;"},
hP: function(a, b, c) { return a.getFloat32(b, C.f === c)},
hO: function(a, b) { return this.hP(a, b, C.j)},
hV: function(a, b, c) { return a.getUint16(b, C.f === c)},
hU: function(a, b) { return this.hV(a, b, C.j)},
hX: function(a, b, c) { return a.getUint32(b, C.f === c)},
hW: function(a, b) { return this.hX(a, b, C.j)},
hY: function(a, b) { return a.getUint8(b)},
Sisby: 1,
Sisaw: 1,
"%": "DataView"},
fb: {"^": "d_;"},
gi:function(a){return a.length},
fF:function(a,b,c,d,e){var z,y,x
z=a.length
this.f5(a,b,z,"start")
this.f5(a,c,z,"end")
if(J.T(b,c))throw H.b(P.S(b,0,c,null,null))
y=J.G(c,b)
if(J.En(e,0))throw H.b(P.N(e))
x=d.length
if(typeof e!="number")return H.i(e)
if(typeof y!="number")return H.i(y)
if(x-e<y)throw H.b(new P.I("Not enough elements"))
if(e!=[0]|x!=[y])d=d.subarray(e,e+y)
a.set(d,b),
$isa_:1,
$asa_:I.aY,
$isV:1,
$asV:I.aY,
dO:{"^":"ir;",
h:function(a,b){if(b>>>0!==b||b>=a.length)H.x(H.ak(a,b))
return a[b]},
k:function(a,b,c){if(b>>>0!==b||b>=a.length)H.x(H.ak(a,b))
a[b]=c},
P:function(a,b,c,d,e){if(!!J.t(d).$isdO){this.fF(a,b,c,d,e)
return}this.f_(a,b,c,d,e)},
a8:function(a,b,c,d){return this.P(a,b,c,d,0)}},
$ash:function(){return[P.bv]}
$isu:1,
$ise:1,
$ase:function(){return[P.bv]}},
ir:{"^":"ip+i1;"},
bv:{"^":"is;",
k:function(a,b,c){if(b>>>0!==b||b>=a.length)H.x(H.ak(a,b))
a[b]=c},
P:function(a,b,c,d,e){if(!!J.t(d).$isbn){this.fF(a,b,c,d,e)
return}this.f_(a,b,c,d,e)},
a8:function(a,b,c,d){return this.P(a,b,c,d,0)}},
$ish:1,
$ash:function(){return[P.q]}
$isu:1,
$ise:1,
$ase:function(){return[P.q]}},
ii:{"^":"fb+a4;"},
$ish:1,
$ash:function(){return[P.q]}
$isu:1,
$ise:1,
$ase:function(){return[P.q]}},

is: {"^": "iq+i1;"},
x5: {"^": "do;"},
U: function(a, b, c) { return new Float32Array(a.subarray(b, H.bs(b, c, a.length))); },
as: function(a, b) { return this.U(a, b, null); },
$isaW: 1,
$ish: 1,
$ash: function() { return [P.bv]; },
$isu: 1,
$ise: 1,
$ase: function() { return [P.bv]; },
"%": "Float32Array"},
x6: {"^": "do;"},
U: function(a, b, c) { return new Float64Array(a.subarray(b, H.bs(b, c, a.length))); },
as: function(a, b) { return this.U(a, b, null); },
$isaW: 1,
$ish: 1,
$ash: function() { return [P.bv]; },
$isu: 1,
$ise: 1,
$ase: function() { return [P.bv]; },
"%": "Float64Array"},
x7: {"^": "bn;"},
h: function(a, b) { if (b >>> 0 !== b || b >= a.length) H.x(H.ak(a, b)) return a[b]; },
U: function(a, b, c) { return new Int16Array(a.subarray(b, H.bs(b, c, a.length))); },
as: function(a, b) { return this.U(a, b, null); },
$isaW: 1,
$ish: 1,
$ash: function() { return [P.q]; },
$isu: 1,
$ise: 1,
$ase: function() { return [P.q]; },
"%": "Int16Array"},
x8: {"^": "bn;"},
h: function(a, b) { if (b >>> 0 !== b || b >= a.length) H.x(H.ak(a, b)) return a[b]; },
U: function(a, b, c) { return new Int32Array(a.subarray(b, H.bs(b, c, a.length))); },
as: function(a, b) { return this.U(a, b, null); },
$isaW: 1,
$ish: 1,
$ash: function() { return [P.q]; },
$isu: 1,
$ise: 1,
$ase: function() { return [P.q]; },
"%": "Int32Array"},
x9: {"^": "bn;"},
h: function(a, b) { if (b >>> 0 !== b || b >= a.length) H.x(H.ak(a, b)) return a[b]; },
U:function(a,b,c){return new Int8Array(a.subarray(b,H.bs(b,c,a.length)))},
as:function(a,b){return this.U(a,b,null)},
$isaW:1,
$ish:1,
$ash:function(){return[P.q]},
$isu:1,
$ise:1,
$ase:function(){return[P.q]},
"%":"Int8Array"},
xa:{"^":"bn;",
h:function(a,b){if(b>>>0!==b||b>=a.length)H.x(H.ak(a,b))
return a[b]},
U:function(a,b,c){return new Uint16Array(a.subarray(b,H.bs(b,c,a.length)))},
as:function(a,b){return this.U(a,b,null)},
$isaW:1,
$ish:1,
$ash:function(){return[P.q]},
$isu:1,
$ise:1,
$ase:function(){return[P.q]},
"%":"Uint16Array"},
xb:{"^":"bn;",
h:function(a,b){if(b>>>0!==b||b>=a.length)H.x(H.ak(a,b))
return a[b]},
U:function(a,b,c){return new Uint32Array(a.subarray(b,H.bs(b,c,a.length)))},
as:function(a,b){return this.U(a,b,null)},
$isaW:1,
$ish:1,
$ash:function(){return[P.q]},
$isu:1,
$ise:1,
$ase:function(){return[P.q]},
"%":"Uint32Array"},
xc:{"^":"bn;",
gi:function(a){return a.length},
h:function(a,b){if(b>>>0!==b||b>=a.length)H.x(H.ak(a,b))
return a[b]},
U:function(a,b,c){return new Uint8ClampedArray(a.subarray(b,H.bs(b,c,a.length)))},
as:function(a,b){return this.U(a,b,null)},
$isaW:1,
$ish:1,
$ash:function(){return[P.q]},
$isu:1,
$ise:1,
$ase:function(){return[P.q]},
"%":"CanvasPixelArray|Uint8ClampedArray"},
fc:{"^":"bn;",
gi:function(a){return a.length},
h:function(a,b){if(b>>>0!==b||b>=a.length)H.x(H.ak(a,b))
return a[b]},
U:function(a,b,c){return new Uint8ClampedArray(a.subarray(b,H.bs(b,c,a.length)))},
as:function(a,b){return this.U(a,b,null)},
$isaW:1,
$ish:1,
$ash:function(){return[P.q]},
$isu:1,
$ise:1,
h:function(a,b){if(b>>>0!==b||b>=a.length)H.x(H.ak(a,b))
    return a[b]}
U:function(a,b,c){return new Uint8Array(a.subarray(b,H.bs(b,c,a.length)))},
as:function(a,b){return this.U(a,b,null)},
Sisfc:1,
Sisp:1,
SisaW:1,
Sish:1,
Sash:function(){return[P.q]},
Sisu:1,
Sise:1,
Sase:function(){return[P.q]},
"%":";Uint8Array"}],""",P,\"^":"
ru:function(){var z,y,x
    z={}
    if(self.scheduleImmediate!=null)return P.uB()
    if(self.MutationObserver!=null&&self.document!=null){y=self.document.createElement("div")
        x=self.document.createElement("span")
        z.a=null
        new self.MutationObserver(H.aC(new P.rw(z),1)).observe(y,{childList:true})
        return new P.rv(z,y,x)}else if(self.setImmediate!=null)return P.uC()
    return P.uD()},
yD:[function(a){++init.globalState.f.b
        self.scheduleImmediate(H.aC(new P.rx(a),0))),"$1","uB",2,0,7],
yE:[function(a){++init.globalState.f.b
        self.setImmediate(H.aC(new P.ry(a),0))),"$1","uC",2,0,7],
yF:[function(a){P.fm(C.o,a)},"$1","uD",2,0,7],
O:function(a,b,c){if(b===0){J.kK(c,a)
            return}else if(b===1){c.h_(H.Y(a),H.ae(a))
            return}P.u5(a,b)
    return c.gh7()},
u5:function(a,b){var z,y,x,w
    z=new P.u6(b)
    y=new P.u7(b)
    x=J.t(a)
    if(!(x.$isR)a.e0(z,y)
        else if(!(x.$isat)a.b4(z,y)
            else{w=H.f(new P.R(0,$.z,null),[null])
                w.a=4
                w.c=a
                w.e0(z,null)}],
b6:function(a){var z=function(b,c){return function(d,e){while(true)try{b(d,e)
            break}catch(y){e=y
d=c} }(a,1)
        $.$.toString
            return new P.uZ(z)},
fK:function(a,b){var z=H.dj()
    z=H.cf(z,[z,z]),bo(a)
if(z){b.toString
return a}else{b.toString
return a}
}

o2:function(a,b){var z=H.f(new P.R(0,$.z,null),[b])
z.aI(a)
return z},
i2:function(a,b,c){var z=H.f(new P.R(0,$.z,null),[b])
z.aI(a)
return z},

o1:function(a,b,c){var z=H.f(new P.R(0,$.z,null),[c])
P.cz(a,new P.uM(b,z))
return z},
b_:function(a){return H.f(new P.jM(H.f(new P.R(0,$.z,null),[a])),[a])},
uf:function(a,b,c){$.z.toString
a.aD(b,c)},
us:function(){var z,y
for(;z=$.cc,z!=null;){$.cH=null
y=z.b
$.cc=y
if(y==null)$.$G=null
z.a.$0()},
z2:[function(){$.fH=0
try{P.us()}finally{$.cH=null
$.fH=!1
if($.cc!==null)$.$Gfp().$1(P.kd())],["0","kd",0,0,2],
k5:function(a){var z=new P.jp(a,null)
if($.cc===null){$.cG=z
$.cc=z
if(!$.fH)$.$Gfp().$1(P.kd())else{$.cG.b=z
$.cG=z)},
uv:function(a){var z,y,x
z=$.cc
if(z===null){P.k5(a)
$.ch=$.cG
return}y=new P.jp(a,null)
$.ch=y
$.cc=y}else{y.b=x.b
x.b=y
$.cH=y
if(y.b===null)$.$G=y}],
kt:function(a){var z=$.z
if(C.i===z){P.bP(null,null,C.i,a)
z=$.z
if(z===C.i){z.toString
return P.j5(a,b){y=z.fU(b,!0)
$.z.toString
return P.j5(a,y)},
fm:function(a,b){var z=C.d.a0(a.a,1000)
return H.qU(z<0?0:z,b)},
j5:function(a,b){var z=C.d.a0(a.a,1000)
return H.qV(z<0?0:z,b)},
cc:function(a,b,c,d,e){var z={}
z.a=d
P.uv(new P.uu(z,e))},
k_:function(a,b,c,d){var z,y
y=$.z
if(y===c)return d.$0()
$.z=c
z=y
try{y=d.$0()
return y}finally{$.z=y},
k1:function(a,b,c,d,e){var z,y
y=$.z
if(y===c)return d.$1(e)
$.z=c
z=y
try{y=d.$1(e)
return y}finally{$.z=y},
k0:function(a,b,c,d,e,f){var z,y
y=$.z
if(y===c)return d.$2(e,f)
$.z=c
z=y
try{y=d.$2(e,f)
return y}finally{$.z=y},
bP:function(a,b,c,d){var z=C.i!==c
if(z)d=c.e7(d,!(!z||!1))
P.k5(d)},
rw:"^":"m:1;a",
$1:function(a){var z,y;--init.globalState.f.b
z=this.a
y=z.a
z.a=null
y.$0()}
rv:"^":"m:42;a,b,c",
$1:function(a){var z,y;++init.globalState.f.b
this.a.a=a
z=this.b
y=this.c
z.firstChild?z.removeChild(y):z.appendChild(y)},
if(x==null)this.d=y
else x.z=y
if(this.d===y)P.di(this.a)
return y
}
fs:function(a){var z
if(a.gjx()===a)return
z=a.y
if((z&2)!==0)a.y=z|4
else {this.fw(a)
if((this.c&2)==0)this.cJ()}
return
}
ft:function(a){},
fu:function(a){},
bB:
K:
{"it",function(a,b){if(!this.gbp())throw H.b(this.bB())
this.fw(a)
if((this.c&2)===0&&this.d==null)this.cJ()}
return new P.I("Cannot add new events while doing an addStream")}]
K:"it",function(a,b){if(!this.gbp())throw H.b(this.bB())
this.fw(a)
if((this.c&2)===0&&this.d==null)this.cJ()}
return new P.I("Cannot add new events after calling close")
return new P.I("Cannot add new events while doing an addStream")}
this.aE(b)}],
aJ:"iu",function(a){var z
if((this.c&4)!==0)throw this.r
if(!this.gbp())throw H.b(this.bB())
this.c=4
z=this.c7()
this.aZ()
return z}]
gkM:function(){return this.c7()},
a3:function(a,b){this.aE(b)},
dL:function(a){var z,y,x,w
z=this.c
if((z&2)!==0)throw H.b(new P.I("Cannot fire new event. Controller is already firing an event"))
y=this.d
if(y==null)throw
x=z&1
this.c=z^3
for(;y!=null;){z=y.y
if((z&1)===x){y.y=z|2
}
a.$1(y)
z=y.y^=1
w=y.z
if((z&4)!==0)throw H.b(new P.I("Cannot fire new event. Controller is already firing an event"))
y.y=&4294967293
y=w}else y=y.z this.c=&4294967293
if(this.d==null)this.cJ(),
cJ:"is",function() {if((this.c&4)==0&&this.r.a==0)this.r.aI(null)
P.di(this.b)}],
de:{"^":"da;a,b,c,d,e,f,r",
"gbp":function(){return P.da.prototype.gbp.call(this)&&(this.c&2)==0},
"bB":function(){
throw new P.I("Cannot fire new event. Controller is already firing an event")
}
return this.ir()}
}aE:function(a){var z,y
kl:[function(a,b){ var z,y,x
z=this.c
if((z&4)==0&&(z&2)!==0){this.dA(new P.jv(a,b,null))
return}
if(!(P.da.prototype.gbp.call(this)&&(this.c&2)==0))throw H.b(this.bB())
this.cS(a,b)
while(!0){z=this.x
if(!(z!=null&&z.c!=null))break
y=z.b
x=J.ep(y)
z.b=x
if(x==null)z.c=null
y.cp(this){function(a){ return this.kl(a>null)},"mD","$2","$1","gkk",2,2,5,0],
aJ:[function(a){ if((z&4)==0&&(z&2)!==0){this.dA(C.n)
this.c|=4
return P.da.prototype.gkM.call(this)}return this.iu(this)}
cJ:function(){
var z=this.x
if(z!=null&&z.c!=null){if(z.a===1)z.a=3
z.c=null
z.b=null
this.x=null}this.is()}
at:{"^":"d;"},
uM:{"^":"m:0;a,b"},
$0:function(){ var z,y,x,w
try{x=this.a
x=x==null?x:x.$0()}
catch(w){x=H.Y(w)
z=x
y=H.ae(w)
P.uf(this.b,z,y)
}]
jt:{"^":"d;h7:a<",h_:[function(a,b){a=a!=null?a:new P.dP()
if(this.a.a!==0)throw H.b(new P.I("Future already completed"))
$.z.toString
this.aD(a,b),function(a){return this.h_(a>null)},"a$","$2","$1","gfZ",2,2,5,0],
aG:{"^":"j;a"},
aj:function(a,b){ var z=this.a
if(z.a!==0)throw H.b(new P.I("Future already completed"))
z.a(l(b)),
fY:function(a){ return this.aj(a>null),
ajD:function(a,b){this.a.dB(a,b)
},
jM:{"^":"j;a"},
aj:function(a,b){ var z=this.a
if(z.a!==0)throw H.b(new P.I("Future already completed"))
z.ax(b),
ajD:function(a){this.a.adj(a,b)}],
fq:{"^":"d;dX:a<b,c,d,e"},
gkd:function(){return this.b.b}],
gh9: function() { return (this.c & 1) !== 0 },
gl4: function() { return (this.c & 2) !== 0 },
gh8: function() { return this.c === 8 },
l2: function(a) { return this.b.b.ct(this.d, a) },
lk: function(a) { if (this.c !== 6) return !0 
  return this.b.b.ct(this.d, J.ck(a)) },
kY: function(a) { var z, y, x, w 
  z = this.e
  y = H.dj() 
  y = H.cf(y, [y, y]).bo(z) 
  x = J.L(a) 
  w = this.b 
  if (y) return w.b.lZ(z, x.gap(a), a.gaA()) 
  else return w.b.ct(z, x.gap(a)) },
l3: function() { return this.b.b.hv(this.d) },
R: {"^": "d;br:a<,b,fA:c<", 
gjp: function() { return this.a === 2 },
gdT: function() { return this.a >= 4 },
gjk: function() { return this.a === 8 },
b4: function(a, b) { var z = $, z 
  if (z !== C.i) { z.toSTr ing 
    if (b !== null) b = P.fK(b, z) return this.e0(a, b) },
  aW: function(a) { return this.b4(a, null) },
e0: function(a, b) { var z = H.f(new P.R(0, $, null), [null]) 
    this.cl(new P.fq(null, z, b, null?1:3, a, b)) 
    return z },
  kq: function(a, b) { var z, y 
    z = H.f(new P.R(0, $, null), [null]) 
    y = z, b 
    if (y !== C.i) { a = P.fK(a, y) 
      if (b !== null) y.toSTring } this.cl(new P.fq(null, z, b, null?2:6, b, a) 
      return z },
  fW: function(a) { return this.kq(a, null) },
b1: function(a) { var z, y 
    z = $, z 
    y = new P.R(0, z, null) 
    y.$builtinTypeInfo = this.$builtinTypeInfo 
    if (z !== C.i) z.toSTring 
    this.cl(new P.fq(null, y, 8, a, null)) 
    return y },
  jY: function() { this.a = 1 },
  cl: function(a) { var z, y 
    z = this.a 
    if (z <= 1) { a.a = this.c 
      this.c = a } else if (z === 2) { y = this.c 
      if (!y.gdT()) y.cl(a) 
      return } this.a = y, a 
    this.c = y.c } z = this.b
z.toString
P.bP(null,null,z,new P.rS(this,a,b))
$\text{isat}:1,$
C:{
fr:function(a,b){var z,y,x,w
b.jY()
try{a.b4(new P.rV(b),new P.rW(b))}catch(x){w=H.Y(x)
z=w
y=H.ae(x)
P.kt(new P.rX(b,z,y))}
} }
e4:function(a,b){var z
for(;a.gjp();){a=a.c
if(a.gdT()){z=b.bF()
if(a.gdX()){v=z.bF()
if(!v){y=J.ck(v)
x=y.gaA()
y.toString}
else y=!0}
else y=!1
if(r){y=z.a
v=y.c
x=J.ck(v)
if(!x)r.toString
else r=!1
if(r){y=z.a
gd9(){b.gh8()}{s=b.rkd()
if(w){r=z.a.b
r.toString}
r=null?
if(!r)s.toString
else r=!0
r=!r}
if(r){y=z.a
gv=J.ck(v)
x=y.gaA()
if(!x)r.toString
else r=!1
if(r){y=z.a
gv=J.ck(v)
x=y.gaA()
if(!x)r.toString
else r=!1
if(r){y=z.a
gv=J.ck(v)
x=y.gaA()
if(!x)r.toString
else r=!1
if(r){y=z.a
gv=J.ck(v)
x=y.gaA()
if(!x)r.toString
else r=!1
if(r){y=z.a
gv=J.ck(v)
x=y.gaA()
if(!x)r.toString
else r=!1
if(r){y=z.a
gv=J.ck(v)
x=y.gaA()
if(!x)r.toString
else r=!1
if(r){y=z.a
gv=J.ck(v)
x=y.gaA()
if(!x)r.toString
else r=!1
if(r){y=z.a
gv=J.ck(v)
x=y.gaA()
if(!x)r.toString
else r=!1
if(r){y=z.a
gv=J.ck(v)
x=y.gaA()
if(!x)r.toString
else r=!1
if(r){y=z.a
gv=J.ck(v)
x=y.gaA()
if(!x)r.toString
else r=!1
if(r){y=z.a
gv=J.ck(v)
x=y.gaA()
if(!x)r.toString
else r=!1
if(r){y=z.a
gv=J.ck(v)
x=y.gaA()
if(!x)r.toString
else r=!1
if(r){y=z.a
gv=J.ck(v)
x=y.gaA()
if(!x)r.toString
else r=!1
if(r){y=z.a
gv=J.ck(v)
x=y.gaA()
P.cd(null,null,y,x,r)
return |q=$.z
if(q==null?s!=null?q!==s)$.$=s
else q=null
if(b.gh8())new P.t0(z,x,w,b).$0()
else if(y){if(b.gh9())new P.t_(x,b,t).$0()}else if(b.gl4())new P.rZ(z,x,b).$0()
if(q!=null)$.$=q
y=x.b
r=J.t(y)
if(!r.$isat){p=b.b
if(!r.$isR)if(y.a>=4){b=p.bF()
p.a=y.a
p.c=y.c
z.a=y
continue}else P.e4(y,p)
else P.fr(y,p)
return |p=b.b
b=p.bF()
y=x.a
x=x.b
if(!y){p.a=4
p.c=x}else{p.a=8
p.c=x}z.a=p
y=p}}}}.

rR:{"^":"m:0;a,b",
$0:function(){P.c9(this.a,this.b)}},
rY:{"^":"m:0;a,b",
$0:function(){P.c9(this.b,this.a.a)}},
rV:{"^":"m:1;a",
$1:function(a){var z=this.a
z.a=0
z.ax(a)}},
rW:{"^":"m:36;a",
$2:function(a,b){this.a.aD(a,b)},
$1:function(a){return this.$2(a,null)}},
rX:{"^":"m:0;a,b,c",
$0:function(){this.a.aD(this.b,this.c)}},
rT:{"^":"m:0;a,b",
$0:function(){P.e4(this.b,this.a)}},
rU:{"^":"m:0;a,b",
$0:function(){var z,y
z=this.a
y=z.bF()}
z.a=4
z.c=this.b
P.c9(z,y)}},
rS:{"^":"m:0;a,b,c",
$0:function(){this.a.aD(this.b,this.c)}},

Open Source Used In Edge and Fog Processing Module 1.6.0
575
try {z=this.d.l3()} catch (w) {v=H.Y(w)
y=y
x=H.ae(w)
if (this.c) {v=J.ck(this.a.a.c)
u=y
u=v=null?u=null:v===u
v=u} else v=!1
u=this.b
if (y) u.b=this.a.a.c
else u.b=new P.cO(y, x)

u.a=!0
return}

if (!J.t(z).$isat) {
if (z instanceof P.R&&z.gbr()>=4) {
if (z.gjk()) {v=this.b
v.b=z.gfA()
v.a=!0}
return}
t=this.a.a
v=this.b
v.b=z.aW(new P.t1(t))
v.a=!1}

}}
t1: {"^":"m:1;a",
$1: function(a) {return this.a}
}
t_: {"^":"m:2;a,b,c",
$0: function(){
var z,y,x,w,v,u,t,s
try {z=this.a.a.c
w=this.c
if (w.lk(z)===!0&&w.e!=null) {v=this.b
v.b=w.kY(z)
v.a=!1}
catch(u) {w=H.Y(u)
y=w
x=H.ae(u)
w=this.a
v=J.ck(w.a.c)
t=y
s=this.b
if (v==null?t==null:v===t)s.b=w.a.c
else s.b=new P.cO(y, x)
s.a=!0}
}
jp: {"^":"d;a,b"},
aB: {"^":"d;"},
be:function(a,b){return H.f(new P.tn(b,this),[H.a7(this,"aB",0),null])},

aa:function(a,b){var z,y
z=[]
y=H.f(new P.R(0,$.z,null),[P.b7])
z.a=null
z.a=this.al(new P.qA(z,this,b,y),!0,new P.qB(y),y.gc5())
return y},

O:function(a,b){var z,y
z={}
y=H.f(new P.R(0,$.z,null),[null])
z.a=0
this.al(new P.qI(z),!0,new P.qI(z,y),y.gc5())
return y},

gi:function(a){var z,y
z={}
y=H.f(new P.R(0,$.z,null),[P.q])
z.a=0
this.al(new P.qI(z),!0,new P.qI(z,y),y.gc5())
return y},

az:function(a){var z,y
z=H.f([],[H.a7(this,"aB",0)])
y=H.f(new P.R(0,$.z,null),[[P.h,H.a7(this,"aB",0)]])
this.al(new P.qK(this,z),!0,new P.qL(z,y),y.gc5())
return y},

aX:function(a,b){var z=H.f(new P.tz(b,this),[H.a7(this,"aB",0)])
if(typeof b!"number"||Math.floor(b)!==b||b<0)H.x(P.N(b))
return z}},
qC: {"^":"m:0;a,b",
$0:function(){return this.a.$1(this.b)}},
qD: {"^":"m:1;",
$1:function(a){},
qF: {"^":"m:0;a",
$0:function(){this.a.ax(null)}},
qI: {"^":"m:1;a",
$1:function(a){++this.a.a}},
qJ: {"^":"m:0;a,b",
$0:function(){this.b.ax(this.a.a)}},
qG: {"^":"m:1;a,b",
$1:function(a){P.jX(this.a.a,this.b,!1)}},
qH: {"^":"m:0;a",
$0:function(){this.a.ax(!0)}},
qK: {"^":"m;a,b",
$1:function(a){this.b.push(a)},
$signature:function(){return H.aX(function(a){return{func:1,args:[a]}},this.a,"aB")},
qL: {"^":"m:0;a,b",
$0:function(){this.b.ax(this.a)}},
d7: {"^":"d;"},
giL:function(){if((this.b&8)===0)return this.a
return this.a.gdl()},
dl:function(){var z,y
if((this.b&8)===0){z=this.a
if(z==null){z=new P.fv(null,null,0)
z.$builtinTypeInfo=this.$builtinTypeInfo
this.a=z}return z}y=this.a
y.gdl()
return y.gdl()},
gcT:function(){if((this.b&8)!==0)return this.a.gdl()
return this.a},
af:function(){if((this.b&4)!==0)return new P.I("Cannot add event after closing")
return new P.I("Cannot add event while adding a stream"),
c7:function(){var z=this.c
if(z==null){z=(this.b&2)===0?0:$.$get$i3():H.f(new P.R(0,$.z,null),[null])
this.c=z}return z},
K:function(a,b){if(this.b>=4)throw H.b(this.af())
this.a3(0,b),
aJ:function(a){var z=this.b
if((z&4)===0)return this.c7()
if(z>=4)throw H.b(this.af())
z|=4
this.b=z
if((z&1)===0)this.aZ()
else if((z&3)===0)this.dI().K(0,C.n)
return this.c7()},
a3:function(a,b){var z,y

z=this.b
if((z&1)!==0)this.aE(b)
else if((z&3)==0){z=this.dII()
y=new P.cC(b,null)
y.$builtinTypeInfo=this.$builtinTypeInfo
z.K(0,y))
}
e_:function(a,b,c,d){var z,y,x,w
if((this.b&3)!==0)throw H.b(new P.I("Stream has already been listened to."))
z=$.z
y=new P.ju(this,null,null,z,d?1:0,null,null)
y.$builtinTypeInfo=this.$builtinTypeInfo
y.cG(a,b,c,d,H.J(this,0))
x=this.gjL()
z=this.b|=1
if((z&8)!==0){w=this.a
w.sdl(y)
w.cr(0)}else this.a=y
y.jZ(x)
y.dN(new P.tC(this))
return y},
fs:function(a){var z,y,x,w,v,u
z=null
if((this.b&8)!==0)z=this.a.V(0)
this.a=null
this.b=this.b&4294967286|2
w=this.r
if(w!=null)if(z==null)try{z=w.$0()}catch(v){w=H.Y(v)
y=w}
x=H.ae(v)
if(z!=null)if(z==null)try{z=w.$0()}catch(v){w=H.Y(v)
y=w}
x=H.ae(v)
u=H.f(new P.R(0,$.z,null),[null])
u.dB(y,x)
z=u}else z=z.bi(w)
w=new P.tB(this)
if(z!=null)z=z.bi(w)
else w.$0()
return z},
ft:function(a){if((this.b&8)!==0)this.a.bv(0)
P.di(this.e)},
fu:function(a){if((this.b&8)!==0)this.a.cr(0)
P.di(this.f)},
null
if((z&8)!==0)return
if(z<32)this.aE(b)
else this bm(H.f(new P.CC(b,null),[null]))],
cH:"iw",function(a,b){var z=this.e
if((z&8)!==0)return
if(z<32)this.cS(a,b)
else this bm(new P.jv(a,b,null))}],
dF:function(){var z=this.e
if((z&8)!==0)return
z=(z|2)>>>0
this.e=z
if(z<32)this.aZ()
else this bm(C.n)],
cP:[function(){"$0","gcO",0,0,2],
cR:[function(){"$0","gcQ",0,0,2],
cN:function(){return},
bm:function(a){var z,y
z=this.r
if(z==null){z=H.f(new P.fv(null,null,0),[null]
this.r=z}z.K(0,a)
y=this.e
if((y&64)===0){y=(y|64)>>>0
this.e=y
if(y<128)this.r.cD(this}) },
aE:function(a){var z=this.e
this.e=(z|32)>>>0
this.d.eH(this.a,a)
this.e=(this.e&4294967263)>>>0
this.dE((z&4)===0)},
cS:function(a,b){var z,y
z=this.e
y=new P.rE(this)
this.dC()
this.e=(this.e|16)>>>0
y=this.f
if(!J.t(y).$isat)y.bi(z)
else y.$0()
this.dE((z&4)===0)},
aZ:function(){var z,y
z=new P.rF(this,a,b)
if((z&1)===0){this.e=(z|16)>>>0
this.dC()
z=this.f
if(!J.t(z).$isat)z.bi(y)
else y.$0()
this.dE((z&4)===0)},
aZ:function(){var z,y
z=new P.rE(this)
this.dC()
this.e=(this.e|16)>>>0
y=this.f
if(!J.t(y).$isat)y.bi(z)
else z.$0()
},
dN:function(a){var z=this.e
this.e=(z|32)>>>0
a.$0()
this.e=(this.e&4294967263)>>0
this.dE((z&4)===0),
dE:function(a){var z,y
if((this.e&64)===0){z=this.r}
z=z.gG(z)}else z=!1
if((z&4)===0){if(z<128){z=this.r}
z=z===null||z.gG(z)}else z=!1
else z=!1
if((z&4)===0){if(z<128){z=this.r}
z=z==null||z.gG(z)}else z=!1
else z=!1
if((z&4)===0){if(z<128){z=this.r}
z=z==null||z.gG(z)}else z=!1
else z=!1
if((z&4)===0){if(z<128){z=this.r}
z=z==null||z.gG(z)}else z=!1
else z=!1
for(;!0;a=y){z=this.e
if((z&8)===0){this.r=null
return}
y=(z&4)===0
if(a===y)break
this.e=(z^32)>>0
if(y)this.cP()
else this.cR()
this.e=(this.e&4294967263)>>0}z=this.e
if((z&64)===0&&z<128)this.r.cD(this),
cG:function(a,b,c,d,e){var z=this.d
z.toString
this.a=a
this.b=P.fK(b===null?P.uE():b,z)
this.c=c===null?P.kc():c},
$isrO:1,
$isd7:1,
rF:{"^":"m:2;a,b,c",
$0:function(){var z,y,x,w,v,u
z=this.a
y=z.e
if((y&16)===0)return
z.e=(y|42)>>>0
z.d.eG(z.c)
z.e=(z.e&4294967263)>>>0}},
rE:{"^":"m:2;a",
$0:function(){var z,y
z=this.a
y=z.e
if((y&16)===0)return
z.e=(y|42)>>>0
z.d.eG(z.c)
z.e=(z.e&4294967263)>>>0}.}
tD:{"^":"aB;",
al:function(a,b,c,d){return this.a.e_(a,d,c,!0===b)},
bS:function(a,b,c){return this.al(a,null,b,c)},
hf:function(a){return this.al(a,null,null,null)}},
jw:{"^":"d;bf:a*"},
cC:{"^":"jw;a6:b>,a"},
cp:function(a){a.aE(this.b)},
jv:{"^":"jw:ap:b>,aA:c<,a"},
cp:function(a){a.cS(this.b,this.c)},
rK:{"^":"d;"},
cp:function(a){a.aZ()},
gbf:function(a){return},
sbf:function(a,b){throw H.b(new P.I("No events after a done."))},
tp:{"^":"d;br:a<"},
cD:function(a){var z=this.a
if(z===1)return
if(z>=1){this.a=1
return}P.kt(new P.tq(this,a))
this.a=1},
fV:function(){if(this.a===1)this.a=3},
tq:{"^":"m:0;a,b"},
S0:function(){var z,y
z=this.a
y=z.a
z.a=0
if(y===3)return
z.1_(this.b)}},
fv:{"^":"tp;b,c,a"},
gG:function(a){return this.c==null},
K:function(a,b){var z=this.c
if(z==null){this.c=b
this.b=b}else{J.lm(z,b)
this.c=b},
l_:function(a){var z,y
z=this.b
y=J.ep(z)
this.b=y
if(y===null)this.c=null
z.cp(a)}},
jx:{"^":"d;a,br:b<,c"},
dY:function(){var z,y
if((this.b&2)===0)return
z=this.a
y=this.gjX()
z.toString
P.bp(null,null,z,y)
this.b=(this.b2)>>0,
co:function(a,b){this.b+=4},
bv:function(a){return this.co(a,null)},
cr:function(a){var z=this.b
if(z>=4)z-=4
this.b=z
if(z<4&&!(z&1)==0)this.dY() },
V:function(a){return},
aZ:[function(){var z=(this.b&4294967293)>>1
this.b=z
if(z>=4)return
this.b=(z|1)>>0
z=this.e
if(z==null||!(z.c&4)!=0){z=new P.jx($.z,0,c)
this.$builtinTypeInfo=z.dY()
return z}if(this.f==null){z=z.gkh(z)
y=this.e.gkk()
x=this.e
this.f=this.a.bS(z,x.gkt(x),y)||return this.e.e_.(a,d,c,0==b)}},
bS:function(a,b,c,d){var z,y,x
z=this.e
y=z==null||(z.c&4)!=0
z=new P.jr(this)
this.$builtinTypeInfo=z.dY()
this.d.ct(this.c,z)
if(y){z=this.f
if(z==null){z.V(0)
this.f=null }}, "$0","gjy",0,0,2],
mo:[function(){var z=new P.jr(this)
this.$builtinTypeInfo=this.$builtinTypeInfo
this.d.ct(this.b,z), "$0","giX",0,0,2],
j_:function(){var z=this.f
if(z==null)return
this.f=null
this.e=null
z.V(0)}},
jr:"^^":"d:a",
V:function(a){this.a.j_() return },
jk:"^^":"d:a,b,c,br:d<",
cK:function(a){this.a=null
this.c=null
this.b=null
this.d=1],
function(a){var z,y
z=this.a
if(z===null)return
if(this.d===2){y=this.c
this.cK(0)
y.ax(!1) else this.cK(0)
return z.V(0)},
mm:[function(a){var z
if(this.d===2){this.b=a
z=this.c
this.c=null
this.d=0
z.ax(!0)
return}this.a.bv(0)
this.c=z
this.d=3],"$1","giV",2,0,function(){return H.aX(function(a){return {func:1,v:true,argv:[a]}.this.$receiver,"jK")}],
JG:[function(a,b){var z
if(this.d===2){z=this.c
this.cK(0)
z.aD(a,b)
return}this.a.bv(0)
this.c=new P.cO(a,b)
this.d=4},function(a){return this.jG(a,null)}],"$2","gjF",2,2,5,0],
mm:[function(){if(this.d===2){var z=this.c
this.cK(0)
z.ax(!1)
return}this.a.bv(0)
this.c=null
this.d=5],"$0","giW",0,0,2],
ua:{"^":m:0,a,b,c"},
$0:function(){return this.a.aD(this.b,this.c)},
u9:{"^":m:12,a,b"},
$2:function(a,b){P.u8(this.a,this.b,a,b)},
ub:{"^":m:0,a,b"},
$0:function(){return this.a.ax(this.b)},
db:{"^":aB"},
al:function(a,b,c,d){return this.fa(a,d,c,l0==b)},
bS:function(a,b,c){return this.al(a,null,b,c)},
fa:function(a,b,c,d){return P.rQ(this,a,b,c,d,H.a7(this,"db",0),H.a7(this,"db",1))},
dO:function(a,b){b.a3(0,a)},
jj:function(a,b,c){c.CH(a,b)},
$asaB:function(a,b){return[a,b]}},
e3:{"^":c8:y,a,b,c,defr"},
a3:function(a,b){if((this.e&2)!=0)return
this.iv(this.b)},
cH:function(a,b){if((this.e&2)!=0)return
this.iw(a,b)},
cP:function(){var z=this.y

if(y.B(z,0)){b.z=y.m(z,1)
return}b.a3(0,a)},
$sasdb$:function(a){return[a,a]},
$sasaB$:null},
j3:{"^^":"d;"},
eO:{"^^":"d;ap:a>,aA;b<"},
p: function(a){return H.k(this.a)},
$isas$:1},
u3:{"^^":"d;"},
$asaB$:null},
$j3$:{"^":"d;"},
cO:{"^":"d;ap:a>,aA;b<"},
$p$:function(a){return H.k(this.a)},
$isas$:null},
$uu$:{"^":"m:0;a,b"},
$q0$:function(){var z,y,x
z=this.a
if(y==null){x=new P.dP()
  z=a
  z=x}else z=y
if(y==null)throw H.b(z)
x=H.b(z)
x.stack=J.aR(y)
throw x}),
tu:{"^^":"u3;"},
eG: function(a){var z,y,x,w
  try {if(C.i==$z){x=a.$0()}
    return x}
  x=P.k_(null,null,this,a)
  return x}
catch (w){x=H.Y(w)
  z=x
  y=H.ae(w)
  if(y==null){x=new P.dP()
    z=a
    z=x}else z=y
  if(y==null)throw H.b(z)
  x=H.b(z)
  x.stack=J.aR(y)
  throw x}),
tu:{"^^":"u3;"},
eH: function(a,b){var z,y,x,w
  try {if(C.i==$z){x=a.$1(b)
    return x}
  x=P.k1(null,null,this,a,b)
  return x}
catch (w){x=H.Y(w)
  z=x
  y=H.ae(w)
  if(y==null){x=new P.dP()
    z=a
    z=x}else z=y
  if(y==null)throw H.b(z)
  x=H.b(z)
  x.stack=J.aR(y)
  throw x}),
e7: function(a,b){if(b)return new P.tv(this,a)
  else return new P.tw(this,a)},
fU: function(a,b){return new P.tx(this,a)},
h: function(a){return },
hv: function(a){if($z==C.i)return a.$0()}
return P.k_(null,null,this,a)},
ct:function(a,b){if($z===C.i)return a.$1(b)
return P.k1(null,null,this,a,b)},
lZ:function(a,b,c){if($.z===C.i)return a.$2(b,c)
return P.k0(null,null,this,a,b,c)},
tv:{"^":"m:0;a,b",
$0:function(){return this.a.eG(this.b)}},
tw:{"^":"m:0;a,b",
$0:function(){return this.a.hv(this.b)}},
tx:{"^":"m:1;a,b",
$1:function(a){return this.a.eH(this.b,a)}}
],
"\[",",",P,"\]^","
pp:function(a,b,c){return H.kj(a,H.f(new H.a0(0,null,null,null,null,null,0),[b,c]))},
f1:function(a,b){return H.f(new H.a0(0,null,null,null,null,0),[a,b])},
a5:function(){return H.f(new H.a0(0,null,null,null,null,0),[null,null])},
aj:function(a,b,c){return H.kj(a,H.f(new H.a0(0,null,null,null,null,0),[b,c])))},
i4:function(a,b,c,d){return H.f(new P.t2(0,null,null,null),[d])},
p3:function(a,b,c){var z,y
if(P.fI(a))return b+"..."+c}z=[],
y=$.$get$cI()
y.push(a)
try{P.ur(a,z)}finally{if(0>=y.length)return H.a(y,-1)
y.pop()}y=P.fk(b,z," ")+
c
return y.charCodeAt(0)==0?y:y},
dH:function(a,b,c){var z,y,x
if(P.fI(a))return b+"..."+c
z=new P.aV(b)
y=$.$get$cI()
y.push(a)
try{x=z
x.a=P.fk(x.gbC(),a," ")}finally{if(0>=y.length)return H.a(y,-1)
y.pop()}y=z
y.a=y.gbC()+c
y=z.gbC()
return y.charCodeAt(0)==0?y:y},
fl:function(a){var z,y
for(z=0;y=$.$get$cI(),z<y.length;++z){y=y[z]
if(a==null?y==null:a===y)return!0}return!1},
ur:function(a,b){var z,y,x,w,v,u,t,s,r,q
z=a.GL(a)
y=0
x=0
while(!0){if(!(y<80||x<3))break
if(lz.w())return
w=H.k(z,gF(i))
b.push(w)
y+=w.length+2;+=x
if(lz.w()){if(x<=5)return
if(0>b.length)return H.a(b,-1)
v=b.pop()
if(0>=b.length)return H.a(b,-1)
u=b.pop();else {t=z.gF();++x
if(!z.w()){if(x<=4){b.push(H.k(t))
return}v=H.k(t)
if(0>=b.length)return H.a(b,-1)
u=b.pop();}
y+=v.length+2}else {s=z.gF();++x
for(;z.w();t=s,s=r){r=z.gF();++x
if(x>100){while(!0){if(!y>75&&x>3)break
if(0>=b.length)return H.a(b,-1)
y-=b.pop().length+2;--x}b.push("...")
return} }u=H.k(t)
v=H.k(s)
y+=v.length+u.length+4}if(x>b.length+2){y+=5
q="..."}else q=null
while(!0){if(!y>80&&b.length>3)break
if(0>=b.length)return H.a(b,-1)
y=b.pop().length+2
if(q==null){y+=5
q="..."}if(q!=null)b.push(q)
b.push(u)
b.push(v);}
cu:function(a,b,c,d){return H.f(new P.tg(0,null,null,null,null,null,0),[d])},
f7:function(a){var z,y,x
z={}
if(P.fI(a))return"{}"
y=new P.aV(""").gB();x=y
x.a=x.gB()++""
""
z.a="0
J.dp(a,new P.pD(z,y))
z="z.a+z.gB()++""}finally{z=$.$getSi()}
if(0>=z.length)return H.a(z,-1)
return zCharCodeAt(0)==0?z:z},
JF:"^":"a0;ab,c,d,e,f,r",
ck:function(a){return H.vF(a)&0x3ffffff},
cl:function(a,b){var z,y,x
if(a==null)return-1
z=y
z.a=z.gB()++""}" finally{z=$.$getSi()}
if(0>=z.length)return H.a(z,-1)
z.pop() z=y.gB()
return zCharCodeAt(0)==0?z:z},
jF:"^":"a0;ab,c,d,e,f,r",
ck:function(a){return H.vF(a)&0x3ffffff},
cl:function(a,b){var z,y,x
if(a==null)return-1
z=a.length
for(y=0;y<z;++y){x=a[y].gB()
if(x==null?b==null:x===b)return 1},
C:
C:function(a,b){return H.f(new P.JF(0,null,null,null,null,0),[a,b])}
t2:"^":"ja;ab,c,d,e",}
z=this.e
if(z!=null)return z
y=new Array(this.a)
y.fixed$length=Array
x=this.b
if(x!=null){w=Object.getOwnPropertyNames(x)
v=w.length
for(u=0,t=0;t<v;++t){y[u]=w[t];++u} else u=0
s=this.c
if(s!=null){w=Object.getOwnPropertyNames(s)
v=w.length
for(t=0;t<v;++t){y[u]=w[t];++u} r=this.d
if(r!=null){w=Object.getOwnPropertyNames(r)
v=w.length
for(t=0;t<v;++t){q=r[w[t]]}
p=q.length
for(o=0;o<p;++o){y[u]=q[o];++u}}}this.e=y
return y},
c4:function(a,b){if(a[b]!=null)return!1
a[b]=0;++this.a
this.e=null
return!0},
b8:function(a){return J.ao(a)&0x3ffffff},
b9:function(a,b){var z,y
if(a==null)return-1
z=a.length
for(y=0;y<z;++y)if(J.n(a[y],b))return y
return-1},
$isu:1,
$ise:1,
$ase:null,
C:{
t3:function(){var z=Object.create(null)
z["<non-identifier-key>"]=z
delete z["<non-identifier-key>"]
return z}}},
jA:{"^":"d;a,b,c,d",
gF:function(){return this.d},
w:function(){var z,y,x
z=this.b
y=this.c
x=this.a
if(z!==x.e)throw H.b(new P.al(x))
else if(y>=z.length){this.d=null
return!1} else{this.d=z[y]
this.c=y+1
return!0}]],
tg:{"^":"jz:a,b,c,d,e,f,r"},
gL:function(a){var z=new P.jE(this,this.r,null,null)
z.c=this.e
return z},
gi:function(a){return this.a},
gG:function(a){return this.a===0},
gah:function(a){return this.a!==0},
aa:function(a,b){var z,y
if(typeof b==='string'&&b==='__proto__')
if(z===null)return!
return z[b]!==null}else if(typeof b==='number'&&
(y=(b&0x0f0f0f0f)==b)
if(y===null)return!
return y[b]!==null}else return this.dH(b)},
dH:function(a){var z=this.d
if(z===null)return!
return this.b9(z[this.b8(a)],a)>=0},
ev:function(a){var z
if(!(typeof a==='string'&&a==='__proto__'))
z=typeof a==='number'&&
(y=(a&0x3ffffff)==a)
else z=0
if(z)if(this.a-(a,y)=null)
else return this.dU(a)},
dU:function(a){var z,y,x
z=this.d
if(z==null)return
y=z[this.b8(a)]
x=this.b9(y,a)
if(x<0)return
return J.j(y,x).gc6()},
O:function(a,b){var z,y
z=this.e
y=this.r
for(;z!=null;){b.$1(z.gc6())
if(y!==this.r)throw H.b(new P.al(this))
z=z.b]},
gM:function(a){var z=this.f
if(z===null)throw H.b(new P.I("No elements"))
return z.gc6()},
K:function(a,b){var z,y,x
if(typeof b==='string'&&b==='__proto__')
if(z===null){y=Object.create(null)
y["<non-identifier-key>"]=y
delete y["<non-identifier-key>"]
this.b=y
z=y}else if(typeof b==='number'&&
(y=(b&0x0f0f0f0f)==b)
if(x===null){y=Object.create(null)
y["<non-identifier-key>"]=y
delete y["<non-identifier-key>"]
this.c=y
x=y}return this.c4(x,b)
else return this.aC(0,b)},
aC: function(a, b) { var z, y, x
    z = this.d
    if(z == null) { z = P.ti() }
    this.d = z
    y = this.b8(b)
    x = z[y]
    if(x == null) { [z[y]] = [this.dG(b)] }
    else if(this.b9(x, b) >= 0) { return !1
        x.push(this.dG(b)) } else { return !0
    }
    Y: function(a, b) { if(typeof b === "string" && b !== "__proto__") { return this.f6(this.b, b) }
        else if(typeof b === "number" && (b & 0x3fffffff) === b) { return this.f6(this.c, b) }
        else { return this.j1(0, b) } },
    j1: function(a, b) { var z, y, x
        z = this.d
        if(z == null) { return !1
            y = [this.b8(b)]
        x = this.b9(y, b)
        if(x < 0) { return !1
            this.f7(y.splice(x, 1)[0])
        return !0
    },
    ag: function(a) { if(this.a > 0) { this.f = null
        this.e = null
        this.d = null
        this.c = null
        this.b = null
        this.a = 0
        this.r = this.r + 1 & 67108863 } },
    c4: function(a, b) { if(a[b] != null) { return !1
        a[b] = this.dG(b)
        return !0
    },
    f6: function(a, b) { var z
        if(a == null) { return !1
            z = a[b]
        if(z == null) { return !1
            this.f7(z)
        delete a[b]
        return !0
    },
    dG: function(a) { var z, y
        z = new P.th(a, null, null)
        if(this.e == null) { this.f = z
            this.e = z } else { y = this.f
        z.c = y
        y.saY(z)
        this.f = z } ++this.a
        this.r = this.r + 1 & 67108863
        return z },
    f7: function(a) { var z, y
        z = a.gbq()
        y = a.gaY()
if(z==null)this.e=y
else z.saY(y)
if(y==null)this.f=z
else y.sbq(z);--this.a
this.r=this.r+1&67108863},
b8:function(a){return J.ao(a)&0x3ffffff},
b9:function(a,b){var z,y
if(a==null)return 1
z=a.length
for(y=0;y<z;++y){if(J.n(a[y].gc6(),b))return y
return -1},
Sis:1,
Sise:1,
Sase:null,
C:
ti:function(){var z=Object.create(null)
z["<non-identifier-key>"]=z
delete z["<non-identifier-key>"]
return z }},
th:{"^":"d;c6:a<,aY:b@,bq:c@"},
jE:{"^":"d;a,b,c,d"},
gF:function(){return this.d},
w:function(){var z=this.a
if(this.b!==z.r)throw H.b(new P.al(z))
else{z=this.c
if(z==null){this.d=null
return !1}else{this.d=z.gc6()
this.c=this.c.gaY()
return !0}}},
jz:{"^":"qf;"},
i8:{"^":"e;"},
pq:{"^":"e;a,b,c"},
K:function(a,b){this.dS(this.c,b,!1)},
gL:function(a){return new P.tj(this,this.a,null,this.c,!1)},
gi:function(a){return this.b},
gM:function(a){if(this.b===0)throw H.b(new P.I("No such element"))
return this.c.gbq()},
O:function(a,b){var z,y,x
z=this.a
if(this.b===0)return
y=this.c
do{b.$1(y)
if(z!==this.a)throw H.b(new P.al(this))
y=y.gaY()}
while(x=this.c.y==null?x!==null?y=x):y=x),
gG:function(a){return this.b===0},
dS:function(a,b,c){var z,y
if(J.kZ(b)!=null)throw H.b(new P.I("LinkedListEntry is already in a LinkedList"));++this.a
b.a=this
z=this.b
if(z===0){b.b=b
b.c=b
this.c=b
this.b=z+1
return}y=a.gbq()
b.c=y
b.b=a
y.saY(b)
a.sbq(b)
if(c&&a===this.c)this.c=b;++this.b},
k8:function(a){var z,y;++this.a
a.b.sbq(a.c)
z=a.c
y=a.b
z.saY(y)
z=--this.b
a.c=null
a.b=null
a.a=null
if(z===0) this.c=null
else if(a===this.c) this.c=y}},{
tj:{"^":"d;a,b,c,d,e",
gF:function(){return this.c},
w:function(){var z,y
z=this.a
if(this.b!==z.a)throw H.b(new P.al(this))
if(z!==0)if(this.e){y=this.d
z=z.c
z=y==null?z==null:y===z}else z=!1
else z=!0
if(z){this.c=null
return!1}this.e=!0
z=this.d
this.c=z
this.d=z.gaY()
return!0},
pr:{"^":"d;aY:b@,bq:c@",
gIf: function(a){return this.a},
gbf: function(a){var z,y
z=this.a
if(z!==null){if(z.b===0)H.x(new P.I("No such element"))
 z=z.c
y=this.b
y=z===null?y===null:z===y
z=y}else z=!0
if(z)return
return this.b}},{
}
if(typeof y!="number") return H.i(y)
if(!(z<y)) break
if(J.n(this.h(a,z),b)) { this.P(a,z,J.G(this.gi(a),1),a,z+1)
    this.si(a,J.G(this.gi(a),1))
    return!0}++z} return!1]

b3:function(a) { var z
    if(J.n(this.gi(a),0)) throw H.b(H.b2())
    z=this.h(a,J.G(this.gi(a),1))
    this.si(a,J.G(this.gi(a),1))
    return z},
U:function(a,b,c) { var z,y,x,w,v
    z=this.gi(a)
    if(c==null)c=z
    P.aF(b,c,z,null,null,null)
    y=J.G(c,b)
    x=H.f([],[H.a7(a,"a4",0)])
    C.c.si(x,y)
    if(typeof y!="number") return H.i(y)
    w=0
    for(;w<y;++w) { v=this.h(a,b+w)
        if(w>=x.length) return H.a(x,w)
        x[w]=v } return x },
as:function(a,b) { return this.U(a,b,null) },
eC:function(a,b,c) { var z
    P.aF(b,c,this.gi(a),null,null,null)
    z=J.G(c,b)
    this.P(a,b,J.G(this.gi(a),z),a,c)
    this.si(a,J.G(this.gi(a),z)),
    ak:function(a,b,c,d) { var z
        P.aF(b,c,this.gi(a),null,null,null)
        for(z=b;z<c;++z) this.k(a,z,d)},
P:["_",function(a,b,c,d,e) { var z,y,x,w,v,u,t,s
            P.aF(b,c,this.gi(a),null,null,null)
            z=J.G(c,b)
            y=J.t(z)
            if(y.q(z,0)) return
            if(J.E(e,0)) H.x(P.S(e,0,null,"skipCount",null))
            x=J.t(d)
            if(!x.$ish) {
                w=e
                v=d} else { v=x.aX(d,e).an(0,!1)
                    w=0} x=J.am(w)
            u=J.D(v)
            if(!J.T(x,j(w,z),u.gi(v))) throw H.b(H.i9())
        if(x.u(w,b)) for(t=y.m(z,1),y=J.am(b);s=J.o(t),s.J(t,0);t=s.m(t,1)) this.k(a,y.j(b,t),u.h(v,x.j(w,t))))
        else { if(typeof z!="number") return H.i(z)
            y=J.am(b)
            t=0
            for(;t<z;++t)this.k(a,y.j(b,t),u.h(v,x.j(w,t)))) },function(a,b,c) { return
this.P(a,b,c,d,0),"a8",null,null,"gmh",6,2,null,1],
aM:function(a,b,c,d){ var z,y,w,v,u,t
P.aF(b,c,this.gi(a),null,null,null)
d=C.a.az(d)
z=J.G(c,b)
y=d.length
x=J.o(z)
w=J.am(b)
if(x.J(z,y)){ v=x.m(z,y)
u=w.j(b,y)
t=J.G(this.gi(a),v)
this.a8(a,b,u,d)
if(!J.n(v,0)){this.P(a,u,t,a,c)
this.si(a,t)
this.P(a,u,t,a,c)
this.a8(a,b,u,d) }
},
bM:function(a,b,c){ var z,y
z=this.gi(a)
if(typeof z!="number")return H.i(z)
t=J.p(this.gi(a),y-z)
u=w.j(b,y)
this.si(a,t)
this.P(a,u,t,a,c)
this.a8(a,b,u,d) }
},
b0:function(a,b){ return this.bM(a,b,0)},
bQ:function(a,b,c){ var z,y
c=J.G(this.gi(a),1)
for(z=c;y=J.o(z),y.J(z,0);z=y.m(z,1))if(J.n(this.h(a,z),b))return z
return-1},
cm:function(a,b){ return this.bQ(a,b,null)},
bk:function(a,b,c){ this.a8(a,b+b+1.length,c)},
p:function(a){ return P.dH(a,"[","]")},
Sish:1,
$ash:null,
Sis:1,
$ise:1,
$ase:null},
tN:"^":"d;",
k:function(a,b,c){ throw H.b(new P.w("Cannot modify unmodifiable map")),
Y:function(a,b){ throw H.b(new P.w("Cannot modify unmodifiable map")),
SisU:1,
$asU:null},
pB:{"^":"d;",}
h:function(a, b){return this.a.h(0, b)},
k:function(a, b, c){this.a.k(0, b, c)},
D:function(a, b){return this.a.D(0, b)},
O:function(a, b){this.a.O(0, b)},
gG:function(a){var z=this.a
return z.gG(z)},
gah:function(a){var z=this.a
return z.gah(z)},
Gi:function(a){var z=this.a
return z.gi(z)},
Ga9:function(a){var z=this.a
return z.ga9(z)},
p:function(a){return this.a.p(0)},
 gbh:function(a){var z=this.a
return z.gbh(z)},
$1sU:1,
$asU:null},
r3:{"^":"pB+tN:a"},
$pU:1,$asU:null},
pD:{"^":"m:3;a,b"},
$2:function(a, b){var z, y, x
z=this.d
for(y=this.b; y!==this.c; y=(y+1&this.a.length-1)>>>0){x=this.a
if(y<0||y>=x.length)return H.a(x, y)
b.$1(x[y])
if(z!==this.d)H.x(new P.al(this))},
gL:function(a){return new P.jG(this, this.c, this.d, this.b, null)},
O:function(a, b){var z, y, x
z=this.d
for(y=this.b; y!==this.c; y=(y+1&this.a.length-1)>>>0){x=this.a
if(y<0||y>=x.length)return H.a(x, y)
return z[y]},
N:function(a, b){var z, y, x, w
z=(this.c-this.b&this.a.length-1)>>>0
if(typeOf b!="number") return H.i(b)
if(0>b||b>=z) H.x(P.a3(b,this,"index",null,z))
y=this.a
x=y.length
w=(this.b+b&x-1)>>0
if(w<0|w>=x) return H.a(y,w)
return y[w]

an:function(a,b){ var z=H.f([],H.J(this,0))
C.c.si(z,this.si(this))
this.kc(z)
return z},
aZ:function(a){ return this.an(a,!0)},
K:function(a,b){this.aC(0,b)},
ag:function(a){ var z,y,x,w,v
z=this.b
y=this.c
x=y.length
if(z>=x) return H.a(y,z)
w=y[z]
y[z]=null
this.b=(z+1&x-1)>>>0
return w},
b3:function(a){ var z,y,x,w
z=this.b
y=this.c
if(z===y) throw H.b(H.b2());++this.d
z=this.a
x=z.length
y=(y-1&x-1)>>>0
return w},
aC:function(a,b){ var z,y,x
z=this.a
y=this.c
x=z.length
if(y<0|y>=x) return H.a(z,y)
w=z[y]
z[y]=null
return w},
x=(y+1&x-1)>>>0
this.c=x
if(this.b===x)this.fh();++this.d,
fh:function() {var z,y,x,w
  z=new Array(this.a.length*2)
z.fixedSLength=Array
  y=H.f(z,[H.J(this,0)])
z=this.a
x=this.b
w=z.length-x
  C.c.P(y,0,w,z,x)
  C.c.P(y,w,w+x,this.b,this.a,0)
this.b=0
this.c=this.a.length
this.a=y},
kc:function(a){var z,y,x,w,v
  z=this.b
  y=this.c
  x=this.a
if(z<=y){w=y-z
  C.c.P(a,0,w,x,z)
return w}else{v=x.length-z
  C.c.P(a,0,v,x,z)
  C.c.P(a,v,v+x,this.c,this.a,0)
return this.c+v}}},
iE:function(a,b){var z=new Array(8)
z.fixed$length=Array
this.a=H.f(z,[b])},
$sisu:1,
$sase:null,
C:{
dL:function(a,b){var z=H.f(new P.pt(null,0,0,0),[b])
z.iE(a,b)
return z }}},
jG:{"^":"d;a,b,c,d,e",
gF:function(){return this.e},
w:function(){var z,y,x
  z=this.a
if(this.c!==z.d)H.x(new P.al(z))
y=this.d
if(y===this.b){this.e=null
return!1}z=a
x=z.length
if(y>=x)return H.a(z,y)
this.e=z[y]
this.d=(y+1&x-1)>>>0
return!0}},
qg:{"^":"d;"}
if(a==null||typeof a!="object")return a
if(Object.getPrototypeOf(a)===Array.prototype){for(z=a.y=0;y<a.length;++y)a[y]=z.S2(y,this.$1(a[y]))
return a}
z=Object.create(null)
x=new P.$C(a,z,null)
w=x.$P()
for(v=a,y=0;y<w.length;++y){u=w[y]
z[u]=v.$2(u,this.$1(a[u]))
x.a=z
return x}
}

jc:{"^":"d;a,b,c",
h:function(a,b){var z,y
z=this.b
if(z==null)return this.c.h(0,b)
else if(typeof b!="string")return
else{y=z[b]
return typeof y=="undefined"?this.jM(b);y}}}
gi:function(a){var z
if(this.b==null){z=this.c
z=z.gi(z)}else z=this.aP().length
return z}
gG:function(a){var z
if(this.b==null){z=this.c
z=z.gi(z)}else z=this.aP().length
return z===0}
gah:function(a){var z
if(this.b==null){z=this.c
z=z.gah(z)}return new P.t7(this)}
ghb:function(a){var z
if(this.b==null){z=this.c
return z.ghb(z)}return H.cv(this.aP(),new P.t8(this),null,null)}
k:function(a,b,c){var z,y
if(this.b==null)this.c.k(0,b,c)
else if(this.D(0,b)){z=this.b
z[b]=c
y=this.a
if(y==null?0==null:y==null?0==null:z[b]!=null)throw this.Fl().k(0,b,c),
D:function(a,b){if(this.b==null)return this.c.D(0,b)
if(typeof b!="string")throw !1
return Object.prototype.hasOwnProperty.call(this.a,b)},
h:o:function(a,b,c){var z,y
if(this.D(0,b))return this.h(0,b)
z=c.$0()
this.k(0,b,z)
return z],
Y:function(a,b){if(this.b!=null&!this.D(0,b))return
```javascript
return this.fL().Y(0,b)},
ag:function(a){var z
if(this.b==null)this.c.ag(0)
else{z=this.c
if(z!==null)J.kJ(z)
this.b=null
this.a=null
this.c=P.a5()}},
O:function(a,b){var z,y,x,w
if(this.b==null)return this.c.O(0,b)
z=this.aP()
for(y=0;y<z.length;++y){x=z[y]
w=this.b[x]
if(typeof w=="undefined"){w=P.e9(this.a[x])
this.b[x]=w}b.$2(x,w)
if(z!==null){z=Object.keys(this.a)
this.c=z}return z},
fL:function(){var z,y,x,w,v
if(this.b==null)return this.c
z=P.a5()
y=this.aP()
for(x=0;w=y.length,x<w;++x){v=y[x]
z.k(0,v,this.h(0,v))}if(w===0)y.push(null)
else C.c.si(y,0)
this.b=null
this.a=null
this.c=z
return z},
jM:function(a){var z
if(!Object.prototype.hasOwnProperty.call(this.a,a))return
z=P.e9(this.a[a])
return this.b[a]=z},
$:s:U:1,
$:s:a:Y],
t8:"^^":"m:1:a",
$:1:function(a){return this.a.h(0,a})},
t7:"^^":"bl:a",
gi:function(a){var z=this.a
if(z.b==null){z=z.c
z=z.gi(z)}else z=z.aP().length
return z},
N:function(a,b){var z=this.a
if(z.b==null)z=z.ga9(z).N(0,b)
else{z=z.aP()
if(b>>0!==b|b>=z.length)return H.a(z,b)
```
z=z[b] return z,
gL:function(a){ var y this.a
if(z.b==null){z=z.ga9(z)
z=z.gl(z)} else{z=z.aP();
z=new I.cN(z,z.length,0,null)} return z},

aa:function(a,b){ return this.a.D(0,b)},

$asbl:I.aY,
Sase:I.aY,

ez:{"^":"d;"},
cr:{"^":"d;"},
nP:{"^":"ez;"},
f0:{"^":"as:a.b"},
p:function(a){ if(this.b!=null)return"Converting object to an encodable object failed.”
else return"Converting object did not return an encodable object.”
},

pe:{"^":"f0:a,b"},
p:function(a){ return"Cyclic error in JSON stringify”
},

pd:{"^":"ez;a,b"},
kD:function(a,b){ return P.bO(a,this.gkE().a) 
},
ef:function(a) { return this.kD(a,null)
},
kO:function(a,b){ var z=this.gbI()
    return P.cD(a,z.b,z.a)
},
kN:function(a){ return this.kO(a,null)
},
gbI:function() { return this.aD(a,null)
},
gkE:function() { return this.a7 }
},
cY:{"^":"cr;a,b",C:
    pg:function(a){ return new P.cY(null,a) }
},
cX:{"^":"cr:a",C:
    pf:function(a){ return new P.cX(a) }
},
te:{"^":"d;",
    eO:function(a){ var y this.a
    y=z.gi(a)
    if(typeof y!=='number') return H.i(y)
    x=0
    w=0
    for(;w<y;++w){ v=z.t(a,w)
    if(v>92)continue
    if(v<32){ if(w>x)this.eP(a,x,w)
    x=w+1
    this.aq(92)
    switch(v) case 8:this.aq(98)
    break
    case 9:this.aq(116)
    break
    case 10:this.aq(110)
    break
    case 12:this.aq(102)
    break
}
case 13: this.aq(114)
break
default: this.aq(117)
this.aq(48)
this.aq(48)
u=v>>>4&15
this.aq(u<10?48+u:87+u)
u=v&15
this.aq(u<10?48+u:87+u)
break} else if (v===34||v===92) { if (w>x) this.eP(a,x,w)
x=w+1
this.aq(92)
this.aq(v) } } if (x===0) this.a2(a)
else if (x<y) this.eP(a,x,y),
dD:function(a){ var z,y,x,w
for(z=this.a,y=z.length,x=0;x<y;++x){ w=z[x]
if(a==null?w==null:a===w) throw H.b(new P.pe(a,null))
z.push(a),
bA:function(a){ var z,y,x,w
if(this.hF(a)) return
this.dD(a)
try{ z=this.b.$1(a)
for(z=this.a,y=z.length,x=0;x<y;++x){ w=z[x]
if(a==null?w==null:a===w) throw H.b(new P.pe(a,null))
z.push(a),
} catch(w){ x=H.Y(w)
y=x
} throw H.b(new P.f0(a,y))},
hF:function(a){ var z,y
if(typeof a!="number") { if (!isFinite(a)) return!1
this.md(a)
return!0} else if (a==="0") { this.a2("true")
return!0} else if (a==="1") { this.a2("false")
return!0} else if (a===null) { this.a2("null")
return!0} else if (typeof a!="string") { this.a2(""
this.eO(a)
this.a2(""
return!0} else { z=J.t(a)
if (!z.$ish) { this.dD(a)
this.hG(a)
z=this.a
if(0>=z.length) return H.a(z,-1)
z.pop()}
return!0} else if (!z.$isU) { this.dD(a)
y=this.hH(a)
z=this.a
if(0>=z.length) return H.a(z,-1)
z.pop()
return y} else return!1 },
hG:function(a){ var z,y,x
this.a2("[")
z=J.D(a)
if(J.T(z.gi(a),0)){this.bA(z.h(a,0))}
y=1
while(!0){ x=z.gi(a)
if(typeof x!="number")return H.i(x)
if(!y<x)break
this.a2(",")
this.bA(z.h(a,y));++y }this.a2("]")},
hH:function(a){ var z,y,x,w,v,u
z=[]
y=J.D(a)
if(y.gG(a)){this.a2("{")
return!0}x=y.gi(a)
if(typeof x!="number")return x.v()
x*=2
w=new Array(x)
z.a=0
z.b=!0
y.O(a,new P.tf(z,w))
if(!z.b)return!1
this.a2("{"
for(v="",u=0;u<x;u+=2,v=","){ this.a2(v)
this.eO(w[u])
this.a2("":")
z=u+1
if(z>=x)return H.a(w,z)
this.bA(w[z])this.a2("]")
return!0}),
tf:{"^":m:3;a,b",
$2:function(a,b){var z,y,x,w,v
if(typeof a!="string")this.a.b=!1
z=this.b
y=this.a
x=y.a
w=x+1
y.a=w
v=z.length
if(x>=v)return H.a(x,z)
z[x]=a
y.a=w+1
if(w>=v)return H.a(w,z)
z[w]=b },
t9:{"^":d",
hG:function(a){ var z,y,x
z=J.D(a)
if(z.gG(a))this.a2("[")}
else {this.a2("[
")
this.cA(++this.a$)
this.bA(z.h(a,0))
y=1
while(!0) {x=z.gi(a)
if(typeof x!="number") return H.i(x)
if(!(y<x)) break
this.a2(",
")
this.cA(this.a$)
this.bA(z.h(a,y)); ++y | this.a2("\n")
this.cA(--this.a$)
this.a2("]")
}
hH:function(a) { var z,y,x,w,v,u
z=[]
y=J.D(a)
if(y.gG(a)) { this.a2("{"")
return!0 | x=y.gi(a)
if(typeof x!="number") return x.v()
x*=2
w=new Array(x)
z.a=0
z.b=!0
y.O(a, new P.ta(z,w))
if(!z.b) return!1
this.a2("\n"); ++this.a$
for(v="", u=0; u<x; u+=2, v="", \n") { this.a2(v)
this.cA(this.a$)
this.a2(""")
this.eO(w[u])
this.a2("\n;")
z=u+1
if(z>=x) return H.a(w,z)
this.bA(w[z]) | this.a2("\n")
this.cA(--this.a$)
this.a2(""")
return!0}
}
ta:{"^":m:3;a,b",
$2:function(a,b) { var z,y,x,w,v
if(typeof a!="string") this.a.b=!1
z=this.b
y=this.a
x=y.a
w=x+1
y.a=w
v=z.length
if(x>=v) return H.a(z,x)
z[x]=a
y.a=w+1
}
```javascript
if(w>=v)return H.a(z,w)
z[w]=b},
jd: {"\":"te;c,a,b",
md:function(a){this.c.dm(0,C.d.p(a))},
a2:function(a){this.c.dm(0,a)},
eP:function(a,b,c){this.c.dm(0,J.aq(a,b,c))},
aq:function(a){this.c.aq(a)},
C:{
cD:function(a,b,c){var z,y
  z=new P.aV("")
P.td(a,z,b,c)
y=z.a
  return y.charCodeAt(0)==0?y:y},
td:function(a,b,c,d){var z,y,x
  for(z=this.d,y=this.c,x=0;x<a;++x)y.dm(0,z)}},
ec:function(a){var z,y,x
  for(z=this.d,y=this.c,x=0;x<a;++x)y.dm(0,z)}},
rc: {"\":chr,"\":
  ca:function(a,b,c){var z,y,x,w,v,u
    z=J.D(a)
y=z.gi(a)
P.aF(b,c,y,null,null,null)
x=J.o(y)
w=x.m(y,b)
v=J.t(w)
if(v.qt(w,0))return new Uint8Array(H.a6(0))
v=new Uint8Array(H.a6(v.v(w,3)))
u=new P.u2(0,0,v)
if(u.jd(a,b,y)!==y)u.fM(z.t(a,x.m(y,1)),0)
  return C.h.U(v,0,u,b)},
a4:function(a){this.ca(a,0,null)},{
u2: {"\":"d;a,b,c",
fM:function(a,b){var z,y,x,w,v
    z=this.c
    y=this.b
    if(b&64512)===56320}{x=65536+(a&1023)<<10>>0)b&1023
w=y+1
this.b=w
v=z.length
```
if(y>=v)return H.a(z,y)
z[y]=(240|x>>>18)>>>0
y=w+1
this.b=y
if(w>=v)return H.a(z,w)
z[w]=128|x>>>12&63
w=y+1
this.b=w
if(y>=v)return H.a(z,y)
z[y]=128|x>>>6&63
this.b=w+1
if(w>=v)return H.a(z,w)
z[w]=128|x&63
return!0}else{w=y+1
this.b=w
v=z.length
if(y>=v)return H.a(z,y)
z[y]=224|a>>>12
y=w+1
this.b=y
if(w>=v)return H.a(z,w)
z[w]=128|a>>>6&63
this.b=y+1
if(y>=v)return H.a(z,y)
z[y]=128|a&63
return!1}},
jd:function(a,b,c){var z,y,x,w,v,u,t,s
if(b!==c&&(J.fX(a,J.G(c,1))&64512)===55296)c=J.G(c,1)
if(typeof c!=="number")return H.i(c)
z=this.c
y=z.length
x=J.ab(a)
w=b
for(;w<c;++w){v=x.t(a,w)
if(v<=127){u=this.b
if(u>=y)break
this.b=u+1
z[u]=v}else if((v&64512)===55296){if(this.b+3>=y)break
t=w+1
if(this.fM(v,C.a.t(a,t)))w=t}else if(v<=2047){u=this.b
s=u+1
if(s>=y)break
this.b=s
if(u>=y)return H.a(z,u)
z[u]=192|v>>>6
this.b=s+1
z[s]=128|v&63}else{u=this.b
if(u+2>=y)break

Open Source Used In Edge and Fog Processing Module 1.6.0
610


s = u + 1
this.b = s
if (u >= y) return H.a(z, u)
z[u] = 224 | v >>> 12
u = u + 1
this.b = u
if (s >= y) return H.a(z, s)
z[s] = 128 | v >>> 6 & 63
this.b = u + 1
if (u >= y) return H.a(z, u)
z[u] = 128 | v & 63
}} return w}},
jj: {"^": "cr;a",
ca: function(a, b, c)
{
var z, y, x, w
z = J.y(a)
P.aF(b, c, z, null, null, null)
y = new P.aV(""")
x = new P.u_(!1, y, !0, 0, 0)
x.ca(a, b, z)
x.kU(0)
w = y.a
return w.charCodeAt(0) == 0? w: w},
a4: function(a) {return this.ca(a, 0, null)}
},
\_u_: {"^": "d;a,b,c,d,e,f",
kU: function(a) {if (this.e > 0) throw H.b(new P.ai("Unfinished UTF-8 octet sequence", null, null))},
ca: function(a, b, c) {var z, y, x, w, v, u, t, s, r, q, p, o, n, m
z = this.d
y = this.e
x = this.f
this.d = 0
this.e = 0
this.f = 0
w = new P.u1(c)
v = new P.u0(this, a, b, c)
$loop$0: for (u = J.D(a), t = this.b, s = b; !0; s = m) {
$multibyte$2: if (y > 0) {
do{
if (s === c) break $loop$0
r = u.h(a, s)
q = J.o(r)
if (!J.n(q.l(r, 192), 128)) throw H.b(new P.ai("Bad UTF-8 encoding 0x" + q.aG(r, 16), null, null))
else {z = J.B(J.v(z, 6), q.l(r, 63)); --y; ++s}
} while (y > 0)
q = x - 1
if (q < 0)[q >= 4] return H.a(C.F, q)
p = J.o(z)
if (p.ac(z, C.F[q])) throw H.b(new P.ai("Overlong encoding of 0x" + p.aG(z, 16), null, null))
if (p.B(z, 1114111)) throw H.b(new P.ai("Character outside valid Unicode range: 0x" + p.aG(z, 16), null, null))
if (!this.cl[p.q(z, 65279)]) t.a += H.dR(z)
this.c = !1
for (q = s << c; q;) {o = w.$2(a, s)
if (J.T(o, 0)) (this.c = !1)
if (typeof o !== "number") return H.i(o)
n = s + o
v.$2(s,n)
if(n===c)break}else n=s
m=n+1
r=u.h(a,n)
p=J.o(r)
if(p.u(r,0))throw H.b(new P.ai("Negative UTF-8 code unit: -0x"+J.bV(p.av(r),16),null,null))
else{if(J.n(p.l(r,224),192)){z=p.l(r,31)
y=1
x=1
continue $loop$0}
if(J.n(p.l(r,240),224)){z=p.l(r,15)
y=2
x=2
continue $loop$0}
if(J.n(p.l(r,248),240)&&(p.u(r,245)){z=p.l(r,7)
y=3
x=3
continue $loop$0}
throw H.b(new P.ai("Bad UTF-8 encoding 0x"+p.aG(r,16),null,null))}
break
$loop$0}
if(y>0){this.d=z
this.e=y
this.f=x}}
}
u1:{"^":"m:23;a",
$2:function(a,b){var z,y,x,w
z=this.a
for(y=J.D(a),x=b;x<z;++x){w=y.h(a,x)
if(!J.n(J.c(w,127),w))return x-b}
return z-b}
}
u0:{"^":"m:40;a,b,c,d",
$2:function(a,b){this.a.b.a+=P.c5(this.b,a,b)}}
qM:function(a,b,c){var z,y,x,w
if(b<0)throw H.b(P.S(b,0,J.y(a),null,null))
y=J.aQ(a)
for(x=0;x<b;++x)if(!y.w())throw H.b(P.S(c,b,x,null,null))
w=[]
if(z)for(;y.w();)w.push(y.gF())
else{if(typeof c!="number")return H.i(c)
x=b
for(;x<z;++x)if(!y.w())throw H.b(P.S(c,b,x,null,null))
w.push(y.gF(i)) return H.iH(w)}
hU:function(a){if(typeof a==="number"||typeof a==="boolean"||null===a)return J.aR(a)
if(typeof a==="string")return JSON.stringify(a)
return P.nU(a)}
nU:function(a){var z=J.t(a)
if(!z.$ism)return z.p(a)
return H.dQ(a)}
b1:function(a){return new P.rP(a)}
pu:function(a,b,c,d){var z,y,x
z=J.p4(a,d)
if(a!==0&&b!=null)for(y=z.length,x=0;x<y;++x)z[x]=b

if(w.J(u,b))if(J.n(P.k3(a,b,u,20,v),20))v[7]=u
t=J.p(v[2],1)
s=v[3]
r=v[4]
q=v[5]
p=v[6]
o=J.o(p)
if(o.u(p,q))q=p
n=J.o(r)
if(n.ut(r,t))n=ae(r,u)r=q
if(J.E(s,t))s=r
m=J.E(v[7],b)
if(m){n=J.o(t)
if(n.B(t.w.j(u,3)))t=null
m=!1}else{k=J.o(s)
if(k.B(s,b)&J.n(k,j(s,1),r))t=null
m=!1}else{i=0
if(i){l=null
m=!1}else{if(w.q(u,b+4))if(J.ab(a).aw(a,"file",b)){if(n.ae(t,b)){if(!C.a.aw(a,"/",r)){h="file:///
x=3
}}else{h="file:///
x=2
da=h+C.a.H(a,r,c)
u=w.m(u,b)
z=x-b
q=j.j(q,z)
p=o.j(p,z)
c=a.length
b=0
t=7
s=7
r=7}else{z=J.t(r)
if(z.q(r,q))if(b===0&y.q(c,a.length)){a=C.a.aM(a,r,q,"/"
q=j.j(q,1)
p=o.j(p,1)
c=y.j(c,1)}else{a=C.a.H(a,b+r)="/"+C.a.H(a,q,c)
u=w.m(u,b)
t=n.m(t,b)
s=k.m(s,b)
r=z.m(r,b)
z=1-b
q=j.j(q,z)
p=o.j(p,z)
c=a.length
b=0} })="file"}else
if(C.a.aw(a,"http",b))if(k.B(s,b)&J.n(k,j(s,3),r)&C.a.aw(a,"80",k,j(s,1)))t=b===0&y.q(c,a.length)
i=J.o(r)
if(z){a=C.a.aM(a,s,r,""
r=i.m(r,3)
q=j.m(q,3)
p=o.m(p,3)
c=y.m(c,3)}else{a=C.a.H(a,b,s)+C.a.H(a,r,c)
u=w.m(u,b)
t=n.m(t,b)
s=k.m(s,b)
z=3+b
r=i.m(r,z)
q=j.m(q,z)
p=o.m(p,z)
c=a.length
b=0}}]}="http"}]else l=null
else
if(w.q(u,z)&&(c.dm(a,"https",b))&&(k.B(s,b)&&(J.n(k,j(s,4),r)&&(C.cm(a,"443",k.j(s,1))))){z=b===0&&y.q(c,J.y(a))
i=J.D(a)
g=J.o(r)
if(z){a=i.aM(a,s,r,"")
r=g.m(r,4)
q=j.m(q,4)
p=o.m(p,4)
c=y.m(c,3)}else{a=i.H(a,b,s)+C.a.H(a,r,c)
u=w.m(u,b)
t=n.m(t,b)
s=k.m(s,b)
z=4+b
r=g.m(r,z)
q=j.m(q,z)
p=o.m(p,z)
c=a.length
b=0}}]}="https"}]else l=null
m=!0}}]))}else l=null
if(m){if(b>0||J.E(c,J.y(a)))
a=J.aq(a,b,c)
u=J.G(u,b)
t=J.G(t,b)
s=J.G(s,b)
r=J.G(r,b)
q=J.G(q,b)
p=J.G(p,b)
return new P.br(a,u,t,s,r,q,p,l,null)}return P.tO(a,b,c,u,t,s,r,q,p,l)}},
7:function(a,b,c){var z,y,x,w,v,u,t,s,r,q
z=new P.r8(a)
y=H.a6(4)
x=new Uint8Array(y)
for(w=b,v=w,u=0;t=J.o(w),t.u(w,c);w=t.j(w,1)){s=C.a.t(a,w)
if(s<=46)if(s^48)>9)z.$2("invalid character",w)}else{if(u===3)z.$2("IPv4 address should contain exactly 4 parts",w)
r=H.aA(C.a.H(a,v,w),null,null)
if(J.T(r,255))z.$2("each part must be in the range 0..255",v)
q=u+1
if(u>=y)return H.a(x,u)
x[u]=r
v=t.j(w,1)
u=q\}if(u!==3)z.$2("IPv4 address should contain exactly 4 parts",c)
r=H.aA(C.a.H(a,v,c),null,null)
if(J.T(r,255))z.$2("each part must be in the range 0..255",v)
if(u>=y)return H.a(x,u)
x[u]=r
return x},
ji:function(a,b,c){var z,y,x,w,v,u,t,s,r,q,p,o,n,m,l,k,j
if(c===null)c=a.length
z=new P.r9(a)
y=new P.ra(a,z)
if(a.length<2)z.$1("address is too short")
x=[]
for(w=b,v=w,u=!1,t=!1,s=J.o(w),s.u(w,c);w=J.p(w,1)){r=C.a.t(a,w)
if(r===58){if(s.q(w,b)){w=s.j(w,1)
if(C.a.t(a,w)!==58)z.$2("invalid start colon.",w)
v=w}s=J.t(w)
if(s.q(w,v))if(u)z.$2("only one wildcard `::` is allowed",w)
x.push(-1)
u=!0}else x.push(y.$2(v,w))
v=s.j(w,1)}else if(r===46)t=!0}
if(x.length===0)z.$1("too few parts")
q=J.n(v,c)
p=J.n(C.c.gM(x),-1)
if(q&&!p)z.$2("expected a part after last `::`",c)
if(!q)if(t)x.push(y.$2(v,c))
else{p=J.r7(a,v,c)
x.push(J.v(p[0],8),p[1])
x.push(J.B(J.v(o[0],8),o[1]))}
if(u){if(x.length>7)z.$1("an address with a wildcard must have less than 7 parts")
else if(x.length!==8)z.$1("an address without a wildcard must contain exactly 8 parts")
n=new Uint8Array(16)
for(w=0,m=0;w<x.length;++w){l=x[w]
z=J.t(l)
if(z.q(l,-1))\{k=9-x.length
for(j=0;j<k;++j)\{if(m<0|m>=16)\return H.a(n,m)
n[m]=0
z=m+1\}
if(z>=16)\return H.a(n,z)
n[z]=0
m+=2\}
e\{y=z.n(l,8)
if(m<0|m>=16)\return H.a(n,m)
n[m]=y
y=m+1
z=z.l(1,255)
if(y>=16)\return H.a(n,y)
n[y]=z
m+=2} return n},
ul:function(){ var z,y,x,w,v
z=P.ii(22,new P.un(),!0,P.bp)
y=new P.um(z)
x=new P.uo()
w=new P.up()
v=y.$2(0,225)
x.$3(v,"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz-._~!$&'()*+,;=",1)
x.$3(v,"",14)
x.$3(v,"":".34)
x.$3(v,"/",3)
x.$3(v,"?",172)
x.$3(v,"#",205)
v=y.$2(14,225)
x.$3(v,"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz-._~!$&'()*+,;=",1)
x.$3(v,"",15)
x.$3(v,"":".34)
x.$3(v,"/",234)
x.$3(v,"?",172)
x.$3(v,"#",205)
v=y.$2(15,225)
x.$3(v,"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz-._~!$&'()*+,;=",1)
x.$3(v,"",225)
x.$3(v,"":".34)
x.$3(v,"/",9)
x.$3(v,"?",172)
x.$3(v,"#",205)
v=y.$2(1,225)
x.$3(v,"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz-._~!$&'()*+,;=",1)
x.$3(v,"",34)
x.$3(v,"/",10)
x.$3(v,"??",172)
x.$3(v,"#",205)
v=y.$2(2,235)
x.$3(v,"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz-._~!$&'()*+,;=",139)
x.$3(v,"/",131)
x.$3(v,"",146)
x.$3(v,"?",172)
x.$3(v,"#",205)
v=y.$2(3,235)
x.$3(v,"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz-._~!$&'()*+,;=",11)
x.$3(v,"/",68)
x.$3(v,"",18)
x.$3(v,"?",172)
x.$3(v,"#",205)
v=y.$2(4,229)
x.$3(v,"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz-._~!$&'()*+,;=",5)
w.$3(v,"AZ",229)
if(4>=x.length) return H.a(x,4)
t=y.$1(x[4])
if(5>=x.length) return H.a(x,5)
s=y.$1(x[5])
if(6>=x.length) return H.a(x,6)
t=y.$1(x[6])
if(7>=x.length) return H.a(x,7)
q=new P.nf().$1(x[7])
p=J.o(q)
o=p.aB(q,1000)
n=p.aV(q,1000)
p=x.length
if(8>=p) return H.a(x,8)
if(x[8]!=null){if(9>=p) return H.a(x,9)
p=x[9]
if(p!=null){m=J.n(p,"-"?-1:1
if(10>=x.length) return H.a(x,10)
l=H.aA(x[10],null,null)
if(11>=x.length) return H.a(x,11)
k=y.$1(x[11])
if(typeof l!="number") return H.i(l)
k=J.p(k,60*l)
if(typeof k!="number") return H.i(k)
s=J.G(s,m*k))]
else j=!1
i=H.pS(w,v,s,t,r,o+C.l.hu(n/1000),))
if(i==null) throw H.b(new P.ai("Time out of range",a,null))
return P.hB(i) else throw H.b(new P.ai("Invalid date format",a,null))
}
hB:function(a,b){var z=new P.bi(a,b)
z.dw(a,b)
return z},
hC:function(a){var z,y
z=Math.abs(a)
y=a<0?"-":"
if(z>=1000)return ""+a
if(z>=100)return y+"0"+H.k(z)
if(z>=10)return y+"00"+H.k(z)
return y+"000"+H.k(z)},
nd:function(a){var z,y
z=Math.abs(a)
y=a<0?"-":"
if(z>=1e5)return y+H.k(z)
return y+"0"+H.k(z)},
hD:function(a){if(a>=100)return ""+a
if(a>=10)return "0"+a
return "00"+a},
ba:function(a){if(a>=10)return ""+a
return "0"+a} },
ne:{"^":"m:17;"}
function(a) { if (a == null) return 0
return H.aA(a, null, null) }}

nf: {"^":"m:17;",
$1:function(a){if(a==null)return 0
return H.aA(a,null,null)}},
nf: {"^":"m:17;",
$1:function(a){var z,y,x,w
if(a==null)return 0
z=J.D(a)
z.gi(a)
for(y=0,x=0;x<6;++x){y*=10
w=z.gi(a)
if(typeof w!="number")return H.i(w)
if(x<w)y+=z.t(a,x)^48}return y
}}

bv: {"^":"dm;"},
+a: double: 0,
aT: {"^":"d;bn:a<",
j: function(a,b){return new P.aT(this.a+b.gbn())},
m: function(a,b){return new P.aT(this.a-b.gbn())},
v: function(a,b){if(typeof b!="number")return H.i(b)
return new P.aT(C.d.hu(this.a*b))},
aB: function(a,b){if(J.n(b,0))throw H.b(new P.oe())
if(typeof b!="number")return H.i(b)
return new P.aT(C.d.aB(this.a,b))},
u: function(a,b){return this.a<b.gbn()},
B: function(a,b){return this.a>b.gbn()},
ae: function(a,b){return this.a<=b.gbn()},
J: function(a,b){return this.a>=b.gbn()},
q: function(a,b){if(b==null)return!1
if(!(b instanceof P.aT))return!1
return this.a===b.a},
ga: function(a){return this.a&0x1FFFFFFF},
S: function(a,b){return C.d.S(this.a,b.gbn())},
p: function(a){var z,y,x,w,v
z=new P.nD()
y=this.a
if(y<0)return "+"+new P.aT(-y).p(0)
x=z.$1(C.d.aV(C.d.a0(y,6e7),60))
w=z.$1(C.d.aV(C.d.a0(y,1e6),60))
v=new P.nC().$1(C.d.aV(y,1e6))
return H.k(C.d.a0(y,36e8))+:"+H.k(x)+":"+H.k(w)+":"+H.k(v)
},
e9: function(a){return new P.aT(Math.abs(this.a))},
av: function(a){return new P.aT(-this.a)},
C: {
ev: function(a,b,c,d,e,f){return new P.aT(864e8*a+36e8*b+6e7*e+1e6*f+1000*d+c)}},
nC: {"^":"m:18;"},
$1:function(a){if(a>=1e5)return H.k(a)
if(a>=1e4)return "0"+H.k(a)
if(a>=1000)return "00"+H.k(a)
if(a>=100)return "000"+H.k(a)
if(a>=10)return "0000"+H.k(a)
return "00000"+H.k(a) ),
nD:{"^":"m:18;",
$1:function(a){if(a>=10)return""+a
return"0"+a}
},
as:{"^":"d;",
gaA:function(){return H.ae(this.SthrownIsError)}},
dP:{"^":"as;",
p:function(a){return"Throw of null."},
bf:{"^":"as;a,b,I;c>,ab:d>",
gdK:function(){return"Invalid argument "+(this.a?"(s":"")},
gdJ:function(){return""},
p:function(a){var z,y,x,w,v,u
z=this.c
y=z!=null?" ("+H.k(z)+")":""
z=this.d
x=z==null?"":"+H.k(z)
w=this.gdK()+y+x
if(!this.a)return w
v=this.gdJ()
u=P.hU(this.b)
return w+v+: "+H.k(u)}
C:{
N:function(a){return new P.bf(!1,null,null,a)},
aL:function(a,b,c){return new P.bf(!0,a,b,c)},
h7:function(a){return new P.bf(!1,null,a,"Must not be null")},
d3:{"^":"bf:e,f,a,b,c,d",
gdK:function(){return"RangeError"},
gdJ:function(){var z,y,x,w
z=this.e
y=z==null?": Not less than or equal to "+H.k(z):""
x=this.f
if(x==null)y=": Not greater than or equal to "+H.k(z)
else{w=J.o(x)
if(w.B(x,z))y=": Not in range "+H.k(z)+".."+H.k(x)+", inclusive"}
else y=w.u(x,z)?": Valid value range is empty":": Only valid value is "+H.k(z) }return y},
C:{
iJ:function(a){return new P.d3(null,null,111,null,a)},
d4:function(a,b,c){return new P.d3(null,null,1000,a,b,"Value not in range")},
S:function(a,b,c,d,e){return new P.d3(b,c,0,1000,"Invalid value")},
ik:function(a,b,c,d,e){if(a<b||a>c)throw H.b(P.S(a,b,c,d,e))},
aF:function(a,b,c,d,e,f){var z
if(typeof a!="number")return H.i(a)
if(!0||a){if(typeof c!="number")return H.i(a)
z=a>c?else z=!0
if(z)throw H.b(P.S(a,0,c,"start",f))
if(b!=null){if(typeof b!="number")return H.i(a)
if(!a>b){if(typeof c!="number")return H.i(a)
z=b>c?else z=!0

Open Source Used In Edge and Fog Processing Module 1.6.0
623
if(z) throw H.b(P.S(b,a,c,"end",f))
return b|return c}}},
od:{"=":"bf;e;i:f>a,h,c.d","gdK:function(){return"RangeError"},
gdf:function(){if(J.E(this.b,0))return": index must not be negative"
var z=this.f
if(J.n(z,0))return": no indices are valid"
return": index should be less than "+H.k(z)},
C:{
a3:function(a,b,c,d,e){var z=e!=null?e:J.y(b)
return new P.od(b,z,!0,a,c,"Index out of range")}}},
w:{"=":"as;ab:a>"},
p:function(a){return"Unsupported operation: "+this.a}},
bq:{"=":"as;ab:a>"},
p:function(a){var z=this.a
return z!==null?"UnimplementedError: "+H.k(z):"UnimplementedError"}],
I:{"=":"as;ab:a>"},
p:function(a){return"Bad state: "+this.a},
aL:{"=":"as;a"},
p:function(a){var z=a
if(z==null)return"Concurrent modification during iteration."}
return"Concurrent modification during iteration: "+H.k(P.hU(z))+"."}],
pN:{"=":"d;"},
p:function(a){return"Out of Memory"},
$isas:1},
iX:{"=":"d;"},
p:function(a){return"Stack Overflow"},
$isas:1],
me:{"=":"as;a"},
p:function(a){return"Reading static variable "+this.a+" during its initialization"},
rP:{"=":"d;ab:a>"},
p:function(a){var z=a
if(z===null)return"Exception"
return"Exception: "+H.k(z)],
ai:{"=":"d;ab:a>,b,c"},
p:function(a){var z,y,x,w,v,u,t,s,r,q,p,n,m,l,k
z=this.a
y=z!==null&&""!=""?"FormatException: "+H.k(z):"FormatException"}
x=this.c
w=this.b
if(typeof w==='string')return x!==null?y+(" at offset "+H.k(x)+")":y
if(x===null){z=J.o(x)
z=z.u(x,0)|z.B(x.J.y(w))}else z=!1
if(z)x=null
if(x===null){z=J.D(w)
if(J.T(z.gi(w),78))w=z.H(w,0,75)+"..."
return y+"\n"+H.k(w)}if(typeof x!="number")return H.i(x)
z=J.D(w)
v=1
u=0
t=null
s=0
for(;s<x;++s){r=z.t(w,s)
if(r===10){if(u!==s||t!==!0)++v
u=s+1
t=!1}else if(r===13){++v
u=s+1
t=!0}}y=v>1?y+(" (at line "+v+", character "+H.k(x-u+1)+")\n")":y+(" (at character "+H.k(x+1)+")\n")
q=z.gi(w)
s=x
while(!0){p=z.gi(w)
if(typeof p!="number")return H.i(p)
if(!(s<p))break
r=z.t(w,s)
if(r===10||r===13){q=s
break}++s}p=J.o(q)
if(J.T(p.m(q,u),78))if(x-u<75){o=u+75	n=u
m=""
l="..."}else if(J.E(p.m(q,x),75)){n=p.m(q,75)
o=q
l=""}else{o=x-36
o=x+36
l="..."}m="..."}else{o=q
n=u
m=""
l=""}k=z.H(w,n,o)
if(typeof n!="number")return H.i(n)
return y+m+k+"\n"+C.a.v(" \n\n")}
oe:{"^":"d;",
p:function(a){return"IntegerDivisionByZeroException"},
nV:{"^":"d;I:a>,b",
p:function(a){return"Expando:"+H.k(this.a)},
h:function(a,b){var z,y
z=this.b
if(typeof z!="string"){if(b===null||typeof b==="boolean"||typeof b==="number"||typeof b==="string")H.x(P.aL(b,"Expandos are not allowed on strings, numbers, booleans or null"),null))return z.get(b))y=H.fe(b,"expandos$values")
return y=null?null:H.fe(y,z)},
k:function(a,b,c){var z,y
z=this.b
if(typeof z!="string")z.set(b,c)
else{y=H.fe(b,"expandos$values")
if(y===null){y=new P.d()}
if(w<0)break
v=x-w
u=v!==2
if(|v|===3)if(C.a.t(a,w+1)===46)u=!u||C.a.t(a,w+2)===46
else u=!1
else u=!1
if(u)break;--z
x=w}return C.a.aM(a,x+1,null,C.a.ac(b,y-3*z))

if(a.gc1().length!==0){z=a.gc1()
if(a.gd_())y=a.gcw()
x=a.gc1(a)
w=a.gc1()|w.agbU(a):null}else{y=""
x=null
w=null}v=P.cb(a.gam(a))
u=a.gbw(a):null}else{z=this.a
if(a.gd_())y=a.gci(a)
x=a.gci(a)
w=P.jP(a.gcg()|a.gbw(a):null,z)
v=P.cb(a.gam(a))
u=a.gbw(a):null}else{y=this.b
x=this.c
w=this.d
if(a.gam(a)===""){v=this.e
u=a.gbw(a):null}else{t=this.e
if(t.length===0)if(x==null)v=z.length===0?a.gam(a):P.cb(a.gam(a))
else v=P.cb("/"+a.gam(a))
else s=this.ju(t,a.gam(a))
v=z.length!==0||x!=null||C.a.a7(t,"/")?P.cb(s):P.jT(s)}
return new P.e6(z,y,x,w,v,u,t,s)

if(a.gd_())y=a.gcw()
x=a.gci(a)
w=P.jP(a.gcg()|a.gbw(a):null,z)
v=P.cb(a.gam(a))
u=a.gbw(a):null}else{y=this.b
x=this.c
w=this.d
if(a.gam(a)===""){v=this.e
u=a.gbw(a):null}else{t=this.e
if(t.length===0)if(x==null)v=z.length===0?a.gam(a):P.cb(a.gam(a))
else v=P.cb("/"+a.gam(a))
else s=this.ju(t,a.gam(a))
v=z.length!==0||x!=null||C.a.a7(t,"/")?P.cb(s):P.jT(s)}
return new P.e6(z,y,x,w,v,u,t,s)

if(a.gd_())y=a.gcw()
x=a.gci(a)
w=P.jP(a.gcg()|a.gbw(a):null,z)
v=P.cb(a.gam(a))
u=a.gbw(a):null}else{y=this.b
x=this.c
w=this.d
if(a.gam(a)===""){v=this.e
u=a.gbw(a):null}else{t=this.e
if(t.length===0)if(x==null)v=z.length===0?a.gam(a):P.cb(a.gam(a))
else v=P.cb("/"+a.gam(a))
else s=this.ju(t,a.gam(a))
v=z.length!==0||x!=null||C.a.a7(t,"/")?P.cb(s):P.jT(s)}
return new P.e6(z,y,x,w,v,u,t,s)
if(y.length!==0)z=z+y+"@"
if(!w)z+=H.k(x)
y=this.d
if(y!=null)z=z+":"+H.k(y)
y=this.e
y=this.f
if(y!=null)z=z+"?"+H.k(y)
return z.charCodeAt(0)==0?z:z,
q:function(a,b){var z,y,x
if(b==null)return!1
if(this===b)return!0
z=J.t(b)
if(!z.$isfn){y=this.a
x=b.gc1()
if(y==null?x==null:y===x)if(this.c!=null===b.gd_())if(this.b===b.gcw()){y=this.gci(this)
x=z.gci(b)
if(y==null?x==null:y===x)if(J.n(this.gbU(this),z.gbU(b)))if(this.e===z.gam(b)){y=this.f
x=y==null
if(!x===b.gbL()){if(x)y=""
if(y===z.gbw(b)){z=this.r
y=z==null
if(!y===b.gem()){if(y)z=""
z=z===b.gcZ()else z=!1}else z=!1}else z=!1
else z=!1}else z=!1
else z=!1
else z=!1
return z)return!1},
g1:function(a){var z=this.z
if(z==null){z=this.y
if(z==null){z=this.dR()
this.y=z}z=J.ao(z)
this.z=z}return z},
$isfn:1,
C:{
tO:function(a,b,c,d,e,f,g,h,i,j){var z,y,x,w,v,u,t
if(j==null){z=J.o(d)
if(z.B(d,b))j=P.tV(a,b,d)
else{if(z.q(d,b))P.cF(a,b,"Invalid empty scheme")
j=""}z=J.o(e)
if(z.B(d,b))P.tV(a,b,d)
e...
v=null}u=P.tS(a,g,h,null,w!=null)
z=J.o(h)
t=z.u(h,i)?P.tU(a,z.j(h,1),i,null):null
z=J.o(i)
return new P.e6(j,x,w,v,u,t,z.u(i,c)?P.tQ(a,z.j(i,1),c):null,null,null,null,null,null),
jN:function(a){if(a=="http")return 80
if(a=="https")return 443
return 0},
cF:function(a,b,c){throw H.b(new P.ai(c,a,b))},
jP:function(a,b){if(a!=null&&J.n(a,P.jN(b)))return
return a},
tR:function(a,b,c,d){var z,y,x
if(a==null)return
z=J.t(b)
if(z.q(b,c))return"
if(J.lab(a).t(a,b)==91){y=J.o(c)
if(C.a.t(a,y.m(c,1))!==93)P.cF(a,b,"Missing end `]` to match `[` in host")
P.ji(a,z.j(b,1),y.m(c,1))
return C.a.H(a,b,c).toLowerCase()}for(x=b;z=J.o(x),z.u(x,c);x=z.j(x,1))if(C.a.t(a,x)===58){P.ji(a,b,c)
return"["+a+"]"}return P.tY(a,b,c),
tY:function(a,b,c){var z,y,x,w,v,u,t,s,r,q,p
for(z=b,y=z,x=null,w=!0;v=J.o(z),v.u(z,c);){u=C.a.t(a,z)
if(u===37){t=P.jS(a,z,!0)
s=t==null
if(s&!w){z=v.j(z,3)
continue}if(x==null)x=new P.aV(""
}
r=C.a.H(a,y,z)
if(!w)r=r.toLowerCase()
x.a=x.a+r
if(s){t=C.a.H(a,z,v.j(z,3))
q=3}else if(t==="%"){t="%25"
q=1}else q=3
x.a+=t
z=v.j(z,q)
}
y=z
w=!0}else{if(u<127){s=u>>4
if(s>=8)return H.a(C.J,s)
s=(C.J[s]&C.b.aQ(1,u&15))!==0}else s=!1
if(s){if(w&65<=u&90>=u){if(x==null)x=new P.aV(""
}
if(J.E(y,z)){s=C.a.H(a,y,z)
}
else if(t===%){t="%25"
q=1}else q=1
else if((u&64512)===55296&&J.E(v.j(z,1),c)){p=C.a.t(a,v.j(z,1))
}
else if((p&64512)===56320){u=(65536|(u&1023)<<10|p&1023)>>>0
q=2}else q=1}else q=1
if(x==null)x=new P.aV(""")
r=C.a.H(a,y,z)
if(!w)r=r.toLowerCase()
x.a+=x.a+r
x.a+=P.jO(u)
z=v.j(z,q)
y=z})}}if(x==null)return C.a.H(a,b,c)
if(J.E(y,c)){r=C.a.H(a,y,c)
x.a+=w?r.toLowerCase():r}v=x.a
return v.charCodeAt(0)==0?v:v,
tV:function(a,b,c){ var z,y,x,w,v
if(b===c)return"
z=J.ab(a).t(a,b)|32
if(!97<=z&&z<=122)P.cF(a,b,"Scheme not starting with alphabetic character")
if(typeof c!="number")return H.i(c)
y=b
x=!1
for(;y<c;++y){w=C.a.t(a,y)
if(w<128){v=w>>>4
if(v>=8)return H.a(C.H,v)
else v=!1
if(!v)P.cF(a,y,"Illegal scheme character")
if(65<=w&&w<=90)x=!0}a=C.a.H(a,b,c)
return P.tP(x?a.toLowerCase():a),
tP:function(a){if(a==null)return H.i(c)
if(a=="http")return"http"
if(a=="https")return"https"
if(a=="package")return"package"
return a},
tW:function(a,b,c){if(a==null)return"
return P.e7(a,b,c,C.ai),
tS:function(a,b,c,d,e,f){var z,y,x,w
z=e=="file"
y=z||f
x=a==null
if(x&&!0)return z?"/":""
else x=true
w=x?P.e7(a,b,c,C.ai):C.t.be(d,new P.tT()).bP(0,"/")
if(w==0){if(z)return"/"}else if(y&&(C.a7(w,"/"))w="/"+w
return P.tX(w,e,f),
tX:function(a,b,c){if(b.length==0){if(z)"/"}else if(y&&!C.a7(w,"/"))w="/"+w
return P.tX(w,e,f),
tS:function(a,b,c,d,e,f){var z,y,x,w,v,u,t
z=J.am(b)
if(J.a9(z,j(b,2),a.length))return"%"
y=C.a.t(a,z,j(b,1))
x=C.a.t(a,z,j(b,2))
w=P.jU(y)
v=P.jU(x)
if(w<0||v<0)return"%"
u=w*16+v
if(u<127){t=C.b.a_(u,4)
if(t>=8)return H.a(C.I,t)
t=(C.I[t]&C.b.aQ(1,u&15))!==0}else t=!1
if(t)return H.dR(c&&65<=u&&90>=u?(u|32)>>>0:u)
if(y>=97||x>=97)return C.a.H(a,b,z,j(b,3)).toUpperCase()
return},
jU:function(a){var z,y
z=a^48
if(z<=9)return z
y=a|32
if(97<=y&&y<=102)return y-87
return-1},
jO:function(a){var z,y,x,w,v,u,t,s,r,q
if(a<128){z=new Array(3)
z[0]=37
z[1]=C.a.t("0123456789ABCDEF",a>>>4)
z[2]=C.a.t("0123456789ABCDEF",a&15)}else if(a>2047){y=224
x=3}else{y=192
x=2}w=3*x
z=new Array(w)
for(v=0;--x,x>=0;y=128){u=C.b.k_(a,6*x)&63|y
if(v>=w)return H.a(z,v)
z[v]=37
t=v+1
s=C.a.t("0123456789ABCDEF",u>>>4)
if(t>=w)return H.a(z,t)
z[t]=s
s=v+2
t=C.a.t("0123456789ABCDEF",u&15)
if(s>=w)return H.a(z,s)
z[s]=t
v+=3}return P.c5(z,0,null)},
e7:function(a,b,c,d){var z,y,x,w,v,u,t,s,r,q
for(z=J.ab(a),y=b,x=y,w=null;v=J.o(y),v.u(y,c);){u=z.t(a,y)
if(u<127){t=u}else t=!1
if(t>=8)return H.a(d,t)
t=d[t]&C.b.aQ(1,u&15))!==0}else t=!1

Open Source Used In Edge and Fog Processing Module 1.6.0
632
if(t)y=v.(y,1)
else{if(u==37){s=P.(a,y,!1)
if(s==null){y=v.(y,3)
continue}if("%"===s){s="%25"
r=1}else r=3}
else{if(u<=93){t=u>>>4
if(t>=8)return H.a(C.q,t)
t=(C.q[t]&&C.b.aQ(1,a&15))?!0}else t=!1
if(t){P.cF(a,y,"Invalid character")
s=null
r=null}else{if(u&65536)===55296}if(J.E(v.(y,1),c))q=C.a.t(a,v.(y,1))
if((q&65536)===56320){u=(65536|(u&1023)<<10|q&1023)>>0
r=2}else r=1}else r=1
else r=1
s=P.(O(u))}if(w==null)w=new P.aV("")
t=C.a.H(a,x,y)
w.a=w.a+t
w.a+=H.k(s)
y=v.(y,r)
x=y}if(w==null)return z.H(a,b,c)
if(J.E(x,c))w.a+=z.H(a,x,c)
z=w.a
return z.charCodeAt(0)==0?z:z},
Q:function(a){if(C.a.a7(a,"."))return!0
return C.a.d0(a,"/"),!
T:function(a){var z,y,x,w,v,u,t
if(!P.jQ(a))return a
z=[
for(y=a.split("/"),x=y.length,w=!1,v=0,v<y.length,y.length===x||0,H.an(y),++v){u=y[v]
if(".."===u)if(z.length!==0&&!J.n(C.c.gM(z),"..")){if(0>=z.length)return H.a(z,-1)
z.pop()}
if(z.length===0){z.push("")}w=!0}
e{z.push(u)
w=!1}if(w)z.push("")
return C.c.bP(z,"/"),
T:function(a){var z,y,x,w,v,u
if(!P.jQ(a))return a
z=[
for(y=a.split("/"),x=y.length,w=!1,v=0,v<y.length,y.length===x||0,H.an(y),++v){u=y[v]
if(".."===u)if(z.length===0&&!J.n(C.c.gM(z),"..")){if(0>=z.length)return H.a(z,-1)
z.pop()}
w=!0}else z.push("")
w=!1}else if(".."===u)w=!0
e{z.push(u)
w=!1}if(!y)z.length
if(y)if(y===1)if(0>y)return H.a(z,0)
y=J.h1(z[0])===!0}else y=!1
else y=0
if(y)return"/"
if(w)return C.c.bP(z,"/")
return C.c.bP(z,"/"),
tZ:function(a,b,c,d){var z,y,x,w,v,u,t
if(c===C.r&&$.test(H.be(b)))return b
z=new P.aV("")
y=c.gM(z)
for(x=y.length,w=0,v="":w++;w++){u=y[w]
if(u<128){t=u>>>4
if(t>=8)return H.a(a,t)
t=(a[t]&C.b.aQ(1,u&15))!
else t=!1
if(t)v=z.a+=H.dR(u)
else if(d&u===32){v="+"}
z.a=v}else{v="%"}
z.a=v
v+="0123456789ABCDEF"[u>>4&15]
z.a=v
v+="0123456789ABCDEF"[u&15]
z.a=v}return v.charCodeAt(0===?v:v))}
uf:{"^":"m:1;a,b",$1:function(a){throw H.b(new P.ai("Invalid port",this.a,J.p(this.b,1)))},
tT:{"^":"m:1;","$1:function(a){return P.tZ(C.ak,a,C.r,!1)}},
r5:{"^":"d;a,b,c","ghD:function(){}var z,y,x,w,v,u
z=this.c
if(z!=null)return z
z=this.b
if(0>=z.length)return H.a(z,0)
y=this.a
z=z[0]+1
x=J.D(y)
w=x.bM(y,"",z)
if(w>0){v=x.ac(y,w+1)
u=w}else{v=null}
u=null}z=new P.e6("data",",null,x.H(y,z,u),v,null,null,null,null,null)
this.c=z
return z},
p:function(a){var z,y
z=this.b
if(0>=z.length)return H.a(z,0)
y=this.a
return z[0]==-1?"data:"+H.k(y):y},
C:{
r6:function(a){var z
if(a.l="data")throw H.b(P.aL(a,"uri","Scheme must be 'data'"))
if(a.c!=-null)throw H.b(P.aL(a,"uri","Data uri must not have authority"))
if(a.r!=-null)throw H.b(P.aL(a,"uri","Data uri must not have a fragment part"))}
if(a.f==null)return P.e0(a,e,0,a)
z=a.y
if(z==null){z=a.dR()}
a.y=z)return P.e0(z,5,a)
z=[b-1]
y=J.D(a)
x=b
w=-1
v=null
while(!0){u=y.gi(a)
if(typeof u!="number")return H.i(u)
if(!x<u)break
c$0:{v=y.t(a,x)
if(v===44||v===59)break
if(v===47){if(w<0){w=x
break c$0}throw H.b(new P.ai("Invalid MIME type",a,x))}}++x}if(w<0&&x>b)throw H.b(new P.ai("Invalid MIME type",a,x))
for(;v!==44;){z.push(x);++x}
t=-1
while(!0){u=y.gi(a)
if(typeof u!="number")return H.i(u)
if(!x<u)break
v=y.t(a,x)
if(v===61){if(t<0)t=x}else if(v===59||v===44)break;++x}
else{s=C.c.gM(z)
if(v!==44||x!==s+7||!y.aw(a,"base64",s+1))throw H.b(new P.ai("Expecting '='",a,x))
break}z.push(x)
return new P.r5(a,z,c)}}},
un:{"^":"m:1;","$1:function(a){return new Uint8Array(H.a6(96))},
un:{"^":"m:22;a",
$2:function(a,b){var z=this.a
if(a>=z.length)return H.a(z,a)
z=z[a]
J.kM(z,0,96,b)
return z}}},
uo:{"^":"m:16;",$3:function(a,b,c){var z,y,x
for(z=b.length,y=J.ap(a),x=0;x<z;++x)y.k(a,C.a.t(b,x)^96,c)}},
up:{"^":"m:16;",$3:function(a,b,c){var z,y,x
for(z=C.a.t(b,0),y=C.a.t(b,1),x=J.ap(a);z<=y;++z)\(a,(z^96)>>0,c)\},
br:{"^":"d:a,b,c,d,e,f,r,x,y","gd:function(){return J.T(this.c,0)},
gc:function(){return J.T(this.c,0)&amp;JE(J.p(this.d,1),this.e)},
gbL:function(){return JE(this.f,this.r)},
gem:function(){return J.E(this.r,J.y(this.a))},
gha:function(){return J.cm(this.a,"/",this.e)},
gcl:function(){var z,y,x
z=this.b
y=J.o(z)
if(y.ae(z,0))return"
x=this.x
if(x!=null)return x
if(y.q(z,4)&&J.ax(this.a,"http")){this.x="http"
z="http"}else if(y.q(z,5)&&J.ax(this.a,"https")){this.x="https"
z="https"}else if(y.q(z,4)&&J.ax(this.a,"file")){this.x="file"
z="file"}else if(y.q(z,7)&&J.ax(this.a,"package")){this.x="package"
z="package"}
this.x=z}return z},
gcw:function(){var z,y,x,w
z=this.c
y=this.b
x=J.am(y)
w=J.o(z)
return w.B(z,x,j(y,3))?J.aq(this.a,x,j(y,3),w.m(z,1)):""},
gci:function(a){var z=this.c
return J.T(z,0)?J.aq(this.a,z,this.d):""},
ghU:function(a){var z,y
if(this.gcg())return H.aA(J.aq(this.a,J.p(this.d,1),this.e),null,null)
z=this.b
y=J.t(z)
if(y.q(z,4)&&J.ax(this.a,"http"))return 80
if(y.q(z,5)&&J.ax(this.a,"https"))return 443
return 0},
gam:function(a){return J.aq(this.a,this.e,this.f)},
gbw:function(a){var z,y,x
z=this.f
y=this.r
x=J.o(z)
return x.u(z,y)?J.aq(this.a,x,j(z,1),y):""},
gcZ:function(){var z,y,x
z=this.r
y=this.a
x=J.D(y)
w=J.o(z)
return w.u(z,x,g(y))?x.ac(y,w.j(z,1)):""},
fk:function(a){var z=J.p(this.d,1)
return J.n(J.p(z,a.length),this.e)&&J.cm(this.a,a,z)},
lS:function(){var z,y,x
z=this.r
y=this.a
x=J.D(y)
if(!!E(z,x,g(y)))
return new P.br(x,H[y,0,z],this.b,this.c,this.d,this.e,this.f,z,this.x,null),
Open Source Used In Edge and Fog Processing Module 1.6.0

```javascript
df:function(a){return this.bW(P.d8(a,0,null))},
bW:function(a){if(a instanceof P.br)return this.k0(this,a)
    return this.e1().bW(a)},
k0:function(a,b){var z,y,w,v,u,t,s,r,q,p,o
    z=b.b
    y=J.o(z)
    if(y.B(z,0))return b
    x=b.c
    w=J.o(x)
    if(w.B(x,0))v=a.b
    u=J.o(v)
    if(!u.B(v,0))return b
    if(u.q(v,4)&&J.ax(a.a,"file"))t=!J.n(b.e,b.f)
    else if(u.q(v,4)&&J.ax(a.a,"http"))t=!b.fk("80")
    else t=!(u.q(v,5)&&J.ax(a.a,"https"))||b.fk("443")
    if(t){s=u.j(v,1)
        return new P.br(J.aq(a.a,0,u.j(v,1))+J.bU(b.a,y.j(z,1)),v,w.j(x,s),J.p(b.d,s),J.p(b.e,s),J.p(b.f,s),J.p(b.r,s),a.x,null)}else
    return this.e1().bW(b)},
z=b.f
    if(J.n(r,z))y=b.r
    x=J.o(z)
    if(x.u(y,r))z=x.j(z,s)
    x=a.e
    for(;C.a.aw(y,"../",r);)r=J.p(r,3)
    s=J.p(w.m(x,r),1)
    return new P.br(J.aq(a.a,0,x)+J.bU(b,a.y,j(z,1)),v,w.j(x,s),J.p(z,s),J.p(r,s),a.x,null)}else
    return this.e1().bW(b)},
p=1
    while(!0){v=J.am(r)
        if(!J.ch(v,j(r,3),z)&&&C.a.aw(y,"../",r))break
        r=v.j(r,3);++p}for(o="";v=J.o(q),v.B(q,x);){q=v.m(q,1)
        if(C.a.t(w,q)==47){--p
            if(p===0){o="/"}
            break}o="/"}
        v=J.t(q)
        if(!v.q(q,0)&;&C.a.aw(w,"/",x))o=""
        s=J.p(v.m(q,r),o.length)
        return new P.br(C.a.H(w,0,q)+o+C.a.ac(y,r),a.b,a.c,a.d,x,J.p(z,s),J.p(r,s),a.x,null)}
```
gW:function(a){return},
ga1:function(a){var z=this.y
if(z===null){z=J.ao(this.a)
this.y=z}return z},
q:function(a,b){var z
if(b===null)return!1
if(this===b)return!0
z=J.t(b)
if(!z.Sisfn)return J.n(this.a,z.p(b))
return!1},
e1:function(){
var z,y,x,w,v,u,t,s
z=this.gc1()
y=J.o(x)
if(w.B(x,0))x=w.B(x,0)?J.aq(this.a,x,this.d):null
else x=null
w=this.gcg()?this.gbU(this):null
v=this.a
u=J.aq(v,this.e,u)
t=J.aq(v,0,u,null,null,null,null,null)
p:function(a){return this.a},
$isfn:1}}],
["","",W,{},"^":null],
o9:function(a,b,c,d,e,f,g,h){var z,y,x
z=H.f(new P.aG(H.f(new P.R(0,$.z,null),[W.cs]),[W.cs]))
y=new XMLHttpRequest()
C.p.dc(y,b,a,!0)
y.withCredentials=!1
y.overrideMimeType(c)
x=H.f(new W.b4(y,"load",!1),[H.J(C.x,0)])
H.f(new W.aH(0,x,a,x,b,W.al(new W.oa(z,y)),1],[H.J(x,0)]).ao()
x=H.f(new W.b4(y,"error",!1),[H.J(C.w,0)])
H.f(new W.aH(0,x,a,x,b,W.al(z.gfZ()),!1],[H.J(x,0)]).ao()
y.send(g)
return z.a},
rl:function(a,b){return new WebSocket(a),
bN:function(a,b){a=536870911&a+b
a=536870911&a+((524287&a)<<10>>>0)
return a^a>>>6},
jB:function(a){a=536870911&a+((67108863&a)<<3>>>0)
a^a>>>=11
return 536870911&a+((61383&a)<<15>>>0}),
fF:function(a){var z
if(a===null)return
if("postMessage" in a){z=W.tJ(a)
if(!J.t(z).$isP)return z
else return a},
e a: function(a) { var z
if(!J.t(a).$ishI)return z
return z.aN(a)},
a l: function(a) { var z = $z
if(z === C.i) return a
return z.fU(a, l0),
a a: { "^": "ar", "%": "HTMLAppletElement|HTMLBRElement|HTMLBaseElement|HTMLCanvasElement|HTMLContentElement|HTMLDLListElement|HTMLDataListElement|HTMLDirectoryElement|HTMLFontElement|HTMLFrameElement|HTMLHRElement|HTMLHeadElement|HTMLHeadingElement|HTMLHtmlElement|HTMLLabelElement|HTMLLegendElement|HTMLLinkElement|HTMLMarqueeElement|HTMLMenuElement|HTMLMenuElemen
t|HTMLModElement|HTMLOLListElement|HTMLOptGroupElement|HTMLParagraphElement|HTMLPictureElement|HTMLPreElement|HTMLQuoteElement|HTMLScriptElement|HTMLShadowElement|HTMLSourceElement|HTMLSpanElement|HTMLStyleElement|HTMLTableCaptionElement|HTMLTableCellElement|HTMLTableColElement|HTMLTableDataCellElement|HTMLTableElement|HTMLTableElement|HTMLTableListElement|HTMLTableSectionElement|HTMLTemplateElement|HTMLTitleElement|HTMLTrackElement|HTMLULListElement|HTMLUnknownElement|HTMLElement" },
v x: { "^": "aa", "%": "HTMLAnchorElement" },
Sis1: 1,
"%": "HTMLAreaElement" },
v z: { "^": "P", "%": "Animation" },
v B: { "^": "ac;ab:message", "%": "ApplicationCacheErrorEvent" },
v C: { "^": "aa", "%": "HTMLBodyElement" },
p: function(a) { return String(a) },
Sis1: 1,
"%": "HTMLAreaElement" },
v F: { "^": "P; :length="", "%": "AudioTrackList" },
v G: { "^": "P:bR:level="", "%": "BatteryManager" },
dt: { "^": "l", "isdt: 1, "isd: 1, "%": "Blob" },
v H: { "^": "l: I:name="", "%": "BluetoothDevice" },
v I: { "^": "l; cx: connected="", "%": "BluetoothGATTRemoteServer" },
v J: { "^": "aa", "SisP: 1, "Sis1: 1, "%": "HTMLBodyElement" },
v K: { "^": "aa; I:name=", "a6: value="", "%": "HTMLButtonElement" },
v L: { "^": "l: I", "%": "CanvasRenderingContext2D" },
V M: { "^": "W; W: data%: i:length="", "Sis1: 1, "%": "CDATASection|CharacterData|Comment|ProcessingInstruction|Text" },
return a.left===z.ges(b)&a.top===z.geI(b)&this.gbz(a)===z.gbz(b)&this.gbu(a)===z.gbu(b)},
gal1:function(a){var z,y,x,w
z=a.left
y=a.top
x=this.gbz(a)
w=this.gbu(a)
return
W.jB(W.bN(W.bN(W.bN(0,z&0x1FFFFFFF),y&0x1FFFFFFF),x&0x1FFFFFFF),w&0x1FFFFFFF))},
gbu:function(a){return a.height},
ges:function(a){return a.left},
geI:function(a){return a.top},
gbz:function(a){return a.width},
G:function(a){return a.x},
$isaN:1,
$asaN:I.aY,
"%":"DOMRectReadOnly"},
w7:{"^":"nq;a6:value=","%":"DOMSettableTokenList"},
w8:{"^":"oB;",
gi:function(a){return a.length},
h:function(a,b){if(b>>>0!==b||b>=a.length)throw H.b(P.a3(b,a,null,null,null))
return a.item(b)},
k:function(a,b,c){throw H.b(new P.w("Cannot assign element of immutable List."))},
si:function(a,b){throw H.b(new P.w("Cannot resize immutable List."))},
gM:function(a){var z=a.length
if(z>0)return a[z-1]
throw H.b(new P.I("No elements"))},
N:function(a,b){return this.h(a,b)},
$ish:1,
$ash:function(){return[P.A]},
$isu:1,
$ise:1,
$ase:function(){return[P.A]},
"%":"DOMStringList"},
og:{"^":"l+i4;","$ish:1,
$ash:function(){return[P.A]},
$isu:1,
$ise:1,
$ase:function(){return[P.A]}},
oB:{"^":"og+ad;","$ish:1,
$ash:function(){return[P.A]},
$isu:1,
$ise:1,
S:function(){return[P.A]}},
nq:{"^":"l;i:length="},
K:function(a,b){return a.add(b)},
aa:function(a,b){return a.contains(b)},
"%":"DOMTokenList"},
rG:{"^":"bc;a,b"},
aa:function(a,b){return J.aP(this.b,b)},
gG:function(a){return this.a.firstElementChild==null},
gi:function(a){return this.b.length},
h:function(a,b){var z=this.b
if(b>>>=0!==b||b>=z.length)return H.a(z,b)
return z[b]},
k:function(a,b,c){var z=this.b
if(b>>>=0!==b||b>=z.length)return H.a(z,b)
this.a.replaceChild(c,z[b]),
si:function(a,b){throw H.b(new P.w("Cannot resize element lists"))},
K:function(a,b){this.a.appendChild(b)
return b},
gL:function(a){var z=this.az(this)
return new J.cN(z,z.length,0,null)},
P:function(a,b,c,d,e){throw H.b(new P.bq(null))},
a8:function(a,b,c,d){return this.P(a,b,c,d,0)},
aM:function(a,b,c,d){throw H.b(new P.bq(null))},
ak:function(a,b,c,d){throw H.b(new P.bq(null))},
Y:function(a,b){var z
if(!!J.t(b).$isar){z=this.a
if(b.parentNode===z){z.removeChild(b)
return!0}}
return!1},
b3:function(a){var z=this.gM(this)
this.a.removeChild(z)
return z},
gM:function(a){var z=this.a.lastElementChild
if(z==null)throw H.b(new P.f("No elements"))
return z},
$asbc:function(){return[W.ar]},
$ash:function(){return[W.ar]},
$sae:function(){return[W.ar]},
ar: {"^":"W;",
gfT:function(a){return new W.rL(a)},
gbH:function(a){return new W.rG(a,a.children)},
p:function(a){return a.localName},
ghk:function(a){return H.f(new W.jy(a,"click",!1),[H.J(C.v,0)])},
Sisar:1,
$isW:1,
$isd:1,
$sis:1,
$isp:1,
"%^":"Element"},
wb: {"^":"aa:1:name=","%^":"HTMLEmbedElement"},
hT: {"^":"l:1:name="},
j3:function(a,b,c,d){return a.copyTo(b,d,H.aC(e,1),H.aC(c,1))},
ky:function(a,b,c){var z=H.f(new P.aG(H.f(new P.R(0,$.z,null),[W.hT])),[W.hT])
this.j3(a,b,new W.nQ(z),c,new W.nR(z))
return z.a},
b0: function(a,b){return this.ky(a,b,null)},
JS:function(a,b,c){return a.remove(H.aC(b,0),H.aC(c,1))},
cq:function(a){var z=H.f(new P.aG(H.f(new P.R(0,$.z,null)),[null]),[null])
this.js(a,new W.nS(z),new W.nT(z))
return z.a},
$isd:1,
"%":"DirectoryEntry|Entry|FileEntry"},
nR:{"^":"m:1;a"},
S1:function(a){this.a.aj(0,a)}},
nQ:{"^":"m:1;a"},
S1:function(a){this.a.aS(a)},{
S:{"^":"m:0;a"},
$0:function(){this.a.fY(0)}},
T:{"^":"m:1;a"},
S1:function(a){this.a.aS(a)},{
wc:{"^":"ac:ap:error=,ab:message=" "%":"ErrorEvent"},
ac:{"^":"I;jf:currentTarget=,am:path="},
gkB:function(a){return W.fF(a.currentTarget)},
$isac:1,
$isd:1,
P:{"^":"1"},
 iT:function(a,b,c,d){return a.addEventListener(b,H.aC(c,1),!1)},
 jT:function(a,b,c,d){return a.removeEventListener(b,H.aC(c,1),!1)},
$isP:1,
 $isac:1,
$isd:1,
"%":"ApplicationCache|AudioContext|CrossOriginServiceWorkerClient|DOMApplicationCache|EventSource|MIDIAccess|MediaController|MediaQueryList|MediaSource|MediaStream|MediaStreamTrack|NetworkInformation|OfflineAudioContext|OfflineResourceList|Performance|PermissionStatus|Presentation|RTCDMFSender|RTCPeerConnection|ScreenOrientation|ServicePortCollection|ServiceWorkerContainer|ServiceWorkerRegistration|SpeechRecognition|SpeechSynthesisUtterance|StashedPortCollection|WorkerPerformance|mozRTCpeerConnection|webkitAudioContext|webkitRTCPeerConnection|EventTarget|hV|hX|hW|hY"},
nW:{"^":"ac;"},
"%":"HTMLFieldSetElement"},
vw:{"^":"aa:1:name=" "%":"HTMLFieldSetElement"},
bb:{"^":"dt:1:name="`,`$isbb:1,$isd:1,$isd:1,"%":"File"},
i_:{"^":"oC;"},
gi:function(a){return a.length},
h:function(a,b){if(b>>0!==b||b>=a.length)throw H.b(P.a3(b,a,null,null,null))
return a[b]},
k:function(a,b,c){throw H.b(new P.w("Cannot assign element of immutable List."))},
si:function(a,b){throw H.b(new P.w("Cannot resize immutable List."))},

Open Source Used In Edge and Fog Processing Module 1.6.0
643
gM:function(a){ var z=a.length
if(z>0) return a[z-1]
throw H.b(new P.l("No elements"));
}
N:function(a,b){if(b>>0!==b||b>a.length)return H.a(a[b]);
return a[b];}
$isi_:1,
$isa_:1,
$sas_a:function(){return[W.bb]},
$isv:1,
$sav:function(){return[W.bb]},
$ish:1,
$ash:function(){return[W.bb]},
$isu:1,
$ise:1,
$sase:function(){return[W.bb]},
"%":"FileList"},
oh:{"^":"l+a4;"},
$ish:1,
$ash:function(){return[W.bb]},
$isu:1,
$ise:1,
$sase:function(){return[W.bb]},
oC:{"^":"oh+ad;"},
$ish:1,
$ash:function(){return[W.bb]},
$isu:1,
$ise:1,
$sase:function(){return[W.bb]},
ww:{"^":"P;ap: error="},
wx:{"^":"l;I:name="},
wy:{"^":"P;ap: error=,i:length="},
o0:{"^":"li,"},
$iso0:1,$isd:1,"%":"FontFace"},
wA:{"^":"P;"},
K:function(a,b){return a.add(b)},
mG:function(a,b,c){return a.forEach(H.aC(b,3,c)),
O:function(a,b){b=H.aC(b,3)
return a.forEach(b)},
K:function(a,b){return a.add(b)},
mG:function(a,b,c){return a.forEach(H.aC(b,3,c)),
O:function(a,b){b=H.aC(b,3)
return a.forEach(b)},
K:function(a,b){return a.add(b)},
mG:function(a,b,c){return a.forEach(H.aC(b,3,c)),
O:function(a,b){b=H.aC(b,3)
return a.forEach(b)},
K:function(a,b){return a.add(b)},
mG:function(a,b,c){return a.forEach(H.aC(b,3,c)),
O:function(a,b){b=H.aC(b,3)
return a.forEach(b)},
K:function(a,b){return a.add(b)},
mG:function(a,b,c){return a.forEach(H.aC(b,3,c)),
O:function(a,b){b=H.aC(b,3)
return a.forEach(b)},
K:function(a,b){return a.add(b)},
mG:function(a,b,c){return a.forEach(H.aC(b,3,c)),
O:function(a,b){b=H.aC(b,3)
return a.forEach(b)},
K:function(a,b){return a.add(b)},
mG:function(a,b,c){return a.forEach(H.aC(b,3,c))
throw H.b(new P.I("No elements"));
N:function(a,b){if(b>>>0!==b||b>=a.length)return H.a(a,b)
   return a[b]};
$ish:1,
$ash:function(){return[W.W]},
$isu:1,
$ise:1,
$sase:function(){return[W.W]},
$sisa_:1,
$sasa_:function(){return[W.W]},
$sisV:1,
$sasV:function(){return[W.W]},
"%":"HTMLCollection|HTMLFormControlsCollection|HTMLOptionsCollection"},
oi:{"^":"!+a4:"},$ish:1,
$ash:function(){return[W.W]},
$isu:1,
$ise:1,
$sase:function(){return[W.W]},
oD:{"^":"oi+ad:"},$ish:1,
$ash:function(){return[W.W]},
$isu:1,
$ise:1,
$sase:function(){return[W.W]},
cs:{"^":"o8;lX:responseText=,lY:responseType},m1:timeout},mc:withCredentials}
geE:function(a){var z,y,x,w,v,u,t,s,r,q
z=P.f1(P.A,P.A)
y=a.getAllResponseHeaders()
if(y==null)return z
x=y.split("\r\n")
for(w=x.length,v=0;v<x.length;x.length===w||(0,H.an)(x),++v){u=x[v]
t=J.D(u)
if(t.gG(u)===!0)continue
s=t.d0(u,": ")
if(s===-1)continue
r=t.H(u,0,s).toLowerCase()
q=C.a.ac(u,s+2)
if(z.D(0,r))z.k(0,r,H.k(z.h(0,r))+", "+q)
else z.k(0,r)${}
return z},
mO:function(a,b,c,d,e,f){return a.open(b,c,!0,f,e)},
dc:function(a,b,c,d){return a.open(b,c,d)},
b7:function(a,b){return a.send(b)},
i1:function(a){return a.send()},
$iscs:1,
$isd:1,
"%":"XMLHttpRequest"},
oa:{"^":"m:1:a,b"},
$1:function(a){var z,y,x,w,v
z=this.b
y=z.status
if(typeof y!=='number')return y.J()
x=y>=200&&y<300
w=y>307&&y<400
y=x||y===0||y===304||w
v=this.a
if(y)v.aj(0,z)
else v.aS(a)}
o8:{"^":"P","%":"XMLHttpRequestUpload;XMLHttpRequestEventTarget"},
wG:{"^":"aa":name="","%":"HTMLIFrameElement"},
i5:{"^":"W:datas=".Sis5:1,"%":"ImageData"},
wH:{"^":"aa;"},
aj:function(a,b){return a.complete.$1(b)},
"%":"HTMLImageElement"},
c2:{"^":"aa":name=a6:value=".Sisc2:1.Sisar:1.Sis1:1,SisP:1,SisW:1,"%":"HTMLInputElement"},
wM:{"^":"e_;d5:key="","%":"KeyboardEvent"},
wN:{"^":"aa":name="","%":"HTMLKeygenElement"},
wo:{"^":"aa:a6:value="","%":"HTMLLIElement"},
wr:{"^":"1;"},
p:function(a){return String(a)},
"%":"Location"},
wS:{"^":"aa":name="","%":"HTMLMapElement"},
wV:{"^":"aa:ap:browser="","%":"HTMLAudioElement|HTMLMediaElement|HTMLVideoElement"},
wW:{"^":"ac:ab:message="","%":"MediaKeyEvent"},
x:f9:{"^":"P","%":"MessagePort"},
x_:{"^":"aa":name="","%":"HTMLMetaElement"},
x0:{"^":"aa:a6:value="","%":"HTMLMeterElement"},
x1:{"^":"ac:W:datas="","%":"MIDIMessageEvent"},
x2:{"^":"pE;"},
mf:function(a,b,c){return a.send(b,c)},
b7:function(a,b){return a.send(b)},
"%":"MIDIOutput"},
Open Source Used In Edge and Fog Processing Module 1.6.0

647

pE: {"^":"P;I:name="","%":"MIDIInput:MIDIPort"},
bC: {"^":"l;"!,Sisd:1,"%":"MimeType"},
x3: {"^":"oO;"},
gi:function(a){return a.length},
h:function(a,b){if(b>>>0!==b||b>=a.length)throw H.b(P.a3(b,a,null,null,null))
return a[b]},
k:function(a,b,c){throw H.b(new P.w("Cannot assign element of immutable List."))},
si:function(a,b){throw H.b(new P.w("Cannot resize immutable List."))},
gM:function(a){var z=a.length
if(z>0)return a[z-1]
throw H.b(new P.l("No elements"))},
N:function(a,b){if(b>>>0!==b||b>=a.length)return H.a(a,b)
return a[b]},
$isa_:1,
Sasa_:function(){return[W.bC]},
$asV:1,
$asV:function(){return[W.bC]},
$ish:1,
$ash:function(){return[W.bC]},
$isu:1,
$ise:1,
$ase:function(){return[W.bC]},
"%":"MimeTypeArray"},
oT: {"^":"l+a4;"},
$ish:1,
oO: {"^":"ot+a4;"},
$asV:function(){return[W.bC]},
$isu:1,
$ise:1,
$ase:function(){return[W.bC]},
DragEvent|MouseEvent|PointerEvent|WheelEvent"},
xD: {"^":l;"!,Sisd:1,"%":"Navigator"},
xA: {"^":l;ab:message=,I:name="","%":"NavigatorUserMediaError"},
js: {"^":bc:a,
gM:function(a){var z=this.a.lastChild
if(z==null)throw H.b(new P.I("No elements"))
return z},
K:function(a,b){this.a.appendChild(b)},
b3:function(a){var z=this.gM(this)
this.a.removeChild(z)
return z},
Y:function(a,b){var z
if(!J.t(b).$isW)return!1
z=this.a
if(z!==b.parentNode)return!1
z.removeChild(b)
return!0},
k:function(a,b,c){var z,y
z=this.a
y=z.childNodes
if(b>>>0!==b||b>=y.length)return H.a(y,b)
z.replaceChild(c,y[b])},
gL:function(a){return C.an.gL(this.a.childNodes)},
P:function(a,b,c,d,e){throw H.b(new P.w("Cannot setRange on Node list"))},
a8:function(a,b,c,d){return this.P(a,b,c,d,0)},
ak:function(a,b,c,d){throw H.b(new P.w("Cannot fillRange on Node list"))},
gi:function(a){return this.a.childNodes.length},
si:function(a,b){throw H.b(new P.w("Cannot set length on immutable List."))},
h:function(a,b){var z=this.a.childNodes
if(b>>>0!==b||b>=z.length)return H.a(z,b)
return z[b]},
$asbc:function(){return[W.W]},
$ash:function(){return[W.W]},
$ase:function(){return[W.W]},
W:{"^":P,"cq":function(a){var z=a.parentNode
if(z!=null)z.removeChild(a)},
lW:function(a,b){var z,y
try{z=a.parentNode
J.kE(z,b,a)}catch(y){H.Y(y)}return a},
p:function(a){var z=a.nodeValue
return z==null?this.il(a):z},
aa:function(a,b){return a.contains(b)},
jU:function(a,b,c){return a.replaceChild(b,c)},
SisW:1,
Sisd:1,
"%":";Node"},
pJ:{"^":oP,"gi":function(a){return a.length},
h:function(a,b){if(b>>>0!==b||b>=a.length)throw H.b(P.a3(b,a,null,null,null))
return a[b]},
k:function(a,b,c,d,e){throw H.b(new P.w("Cannot assign element of immutable List."))},
si:function(a,b){throw H.b(new P.w("Cannot resize immutable List."))},
gM:function(a){var z=a.length
if(z>0)return a[z-1]
throw H.b(new P.I("No elements"))},
N:function(a,b){if(b>>>0!==b||b>=a.length)return H.a(a,b)
return a[b]},
Sish:1,
$ash:function(){return[W.W]},
Sisu:1,
$ise:1,
$ase:function(){return[W.W]},
$isa_:1,
Sasa_:function() {return [W.bH]},
$isV:1,
$asV:function() {return [W.bH]},
"%": "SpeechGrammarList",
ow: {"^": "l+a4;", $ish: 1,
Sash:function() {return [W.bH]},
$isu:1,
Sise:1,
Sase:function() {return [W.bH]},
0R: {"^": "ow+ad;", $ish: 1,
Sash:function() {return [W.bH]},
$isu:1,
Sise:1,
Sase:function() {return [W.bH]}},
y8: {"^": "ac:ap:error=,ab:message=","%": "SpeechRecognitionError"},
b1: {"^": "l:i:length=", $isd: 1,"%": "SpeechRecognitionResult"},
y9: {"^": "P;"},
V: function(a) {return a.cancel()},
"%": "SpeechSynthesis",
yv: {"^": "ac:I:name=", "%": "SpeechSynthesisEvent"},
qt: {"^": "f9:1:name=", $isqf: 1,$isd: 1,"%": "StashedMessagePort"},
qw: {"^": "l:!",
D: function(a, b) {return a.getItem(b) != null},
h: function(a, b) {return a.getItem(b)},
k: function(a, b, c) {a.setItem(b, c)},
Y: function(a, b) {var z = a.getItem(b)
a.removeItem(b)
return z},
O: function(a, b) {var z,y
for (z = 0; z <= 0; z++) {y = a.key(z)
if (y == null) return
b.$2(y, a.getItem(y))},
g9: function(a) {var z = H.f([], [P.A])
this.O(a, new W.qx(z))
return z},
gi: function(a) {return a.length},
gG: function(a) {return a.key(0) == null},
gah: function(a) {return a.key(0) != null},
$isU:1,
$asU:function() {return [P.A,P.A]}
"%": "Storage",
qx: {"^": "m:3:a",
S2: function(a, b) {return this.a.push(a)}},
dW: {"^": "ac:d5:keyword=, $isdW: 1, $isac: 1, $isd: 1,"%": "StorageEvent"},
bj: {"^": "l", $isd: 1,"%": "CSSStyleSheet[StyleSheet"},
j1: {"^": "aa:I:name=", $a6:value=", $isj: 1,"%": "HTMLTextAreaElement"}
$asV: function() { return [W.bK] },
Sish: 1,
Sash: function() { return [W.bK] },
Sisu: 1,
Sise: 1,
Sase: function() { return [W.bK] },
"%": "TextTrackList"},
hW: {"^": "P+a4;", $ish: 1,
Sash: function() { return [W.bK] },
Sisu: 1,
Sise: 1,
Sase: function() { return [W.bK] },
"%": "TimeRanges"},
hY: {"^": "hW+ad;", $ish: 1,
Sash: function() { return [W.bK] },
Sisu: 1,
Sise: 1,
Sase: function() { return [W.bK] },
yn: {"^": "length="", "%": "TimeRanges"},
bM: {"^": "l;", $isd: 1, "%": "Touch"},
yo: {"^": "oT;"},
geo: function(a) { return a.length },
h: function(a, b) { if (b >>> 0 !== b || b >= a.length) throw H.b(P.a3(b, a, null, null, null))
return a[b] },
k: function(a, b, c) { throw H.b(new P.w("Cannot assign element of immutable List.")) },
si: function(a, b) { throw H.b(new P.w("Cannot resize immutable List.")) },
gM: function(a) { var z = a.length
if (z > 0) return a[z - 1]
throw H.b(new P.I("No elements")) },
N: function(a, b) { if (b >>> 0 !== b || b > a.length) throw H.a(a, b)
return a[b] },
Sish: 1,
$ash: function() { return [W.bM] },
Sisu: 1,
Sise: 1,
Sase: function() { return [W.bM] },
Sisa_: 1,
Sasa_: function() { return [W.bM] },
SisV: 1,
$asV: function() { return [W.bM] },
"%": "TouchList"},
oy: {"^": "l+a4;", $ish: 1,
$ash: function() { return [W.bM] },
Sisu: 1,
Sise: 1,
Sase: function() { return [W.bM] },
oT: {"^": "oy+ad;", $ish: 1,
$ash: function() { return [W.bM] },
Sisu: 1,
Open Source Used In Edge and Fog Processing Module 1.6.0

655

$ise:1,
$asa:function() {return[W.bM]};
yp:{"\":1;li:length="","\":"TrackDefaultList"},
e_:{"\":1;ac;","\":"FocusEvent[SVGZoomEvent|TouchEvent|UIEvent"},
y:1;
p:function(a){return String(a)},
$isl:1,
"\":"URL"},
yu:{"\":1;P;li:length="","\":"VideoTrackList"},
yy:{"\":1;li:length="","\":"VTTRegionList"},
yA:{"\":1;P;
 b7:function(a,b){return a.send(b)},
"\":"WebSocket"},
yB:{"\":1;P;I:name="S;1,SisP:1,"","\":"DOMWindow|Window"},
yC:{"\":1;SisP:1,1",","\":"Worker"},
ru:{"\":1;P;SisP:1,"","\":"CompositorWorkerGlobalScope|DedicatedWorkerGlobalScope|ServiceWorkerGlobalScope
;WorkerGlobalScope"},
yG:{ "\":1;W;I:name=a6:value="","\":"Attr"}
yH:{"\":1;bu:height=,es:left=,eI:top=,bz:width=",
 p:function(a){return "Rectangle ("+H.k(a.left)+", "+H.k(a.top)+") "+H.k(a.width)+" x "+H.k(a.height)"},
q:function(a,b){var z,y,x
if(b==null) return !1
z=J.t(b)
if(!z.$isaN)return !1
y=a.left
x=z.ges(b)
if(y==null?x==null:y===x){y=a.top
x=z.geI(b)
if(y==null?x==null:y===x){y=a.width
x=z.gbz(b)
if(y==null?x==null:y===x){y=a.height
z=z.gbu(b)
z=y==null?z==null:y===z?else z=!1?else z=!1?else z=!1
return z},
gal1:function(a){var z,y,x,w
z=J.ao(a.left)
y=J.ao(a.top)
x=J.ao(a.width)
w=J.ao(a.height)
return W.jB(W.bN(W.bN(W.bN(0,z),y),x),w)}
$isaN:1,
$asaN:I.aY,
"\":"ClientRect"},
yI:{"\":"oU;",gi:function(a){return a.length},
h:function(a,b){if(b>>0!==b||b>a.length)throw H.b(P.a3(b,a.null,null,null))
return a.item(b),
k:function(a,b,c){throw H.b(new P.w("Cannot assign element of immutable List."))}},
$ash:function(){return[W.bh]},
Sisu:1,
$ise:1,
$ase:function(){return[W.bh]},
yK:{"^":"W","$isl:1,"%":"DocumentType"},
yL:{"^":"np"},
gbu:function(a){return a.height},
gbz:function(a){return a.width},
gE:function(a){return a.x},
"%":"DOMRect"},
yM:{"^":"oE"},
gi:function(a){return a.length},
h:function(a,b){if(b>>>0!==b||b>=a.length)throw H.b(P.a3(b,a,null,null,null))
return a[b]},
k:function(a,b,c){throw H.b(new P.w("Cannot assign element of immutable List."))},
$isa_:1,
$asa_:function(){return[W.bB]},
$isV:1,
$asV:function(){return[W.bB]},
$ish:1,
$ash:function(){return[W.bB]},
Sisu:1,
$ise:1,
$ase:function(){return[W.bB]},
"%":"GamepadList"},
oj:{"^":"l+a4","$ish:1,
$ash:function(){return[W.bB]},
Sisu:1,
$ise:1,
$ase:function(){return[W.bB]},
"%":"GamepadList"},
oj:{"^":"l+a4","$ish:1,
$ash:function(){return[W.bB]},
Sisu:1,
$ise:1,
$ase:function(){return[W.bB]},
"%":"GamepadList"},
oj:{"^":"l+a4","$ish:1,
$ash:function(){return[W.bB]},
Sisu:1,
$ise:1,
gM:function(a) { var z = a.length
if (z > 0) return a[z - 1]
throw H.b(new P.I("No elements"));
}
N:function(a, b) { if (b >>> 0 !== b || b >= a.length) return H.a(a, b); return a[b];
}
Sish: 1,
$ash: function() { return [W.W];
Sisu: 1,
Sise: 1,
Sase: function() { return [W.W];
Sasa_: 1,
Sasa_: function() { return [W.W];
SisV: 1,
SasV: function() { return [W.W];
}%: "MozNamedAttrMap|NamedNodeMap",
ok: {":": "l+a4;", Sish: 1,
Sash: function() { return [W.W];
Sisu: 1,
Sise: 1,
Sase: function() { return [W.W];
}
oF: {":": "ok+a4;", Sish: 1,
Sash: function() { return [W.W];
Sisu: 1,
Sise: 1,
Sase: function() { return [W.W];
}
yT: {":": "P;", SisP: 1, Sisl: 1, ":": "ServiceWorker"},
yU: {":": "oG;",

gi: function(a) { return a.length },
h: function(a, b) { if (b >>> 0 !== b || b >= a.length) throw H.b(P.a3(b, a, null, null, null))
return a[b];
},
k: function(a, b, c) { throw H.b(new P.w("Cannot assign element of immutable List.")));,
si: function(a, b) { throw H.b(new P.w("Cannot resize immutable List.")));,
gM:function(a) { var z = a.length
if (z > 0) return a[z - 1]
throw H.b(new P.I("No elements"));
}
N:function(a, b) { if (b >>> 0 !== b || b >= a.length) return H.a(a, b); return a[b];
}
Sish: 1,
$ash: function() { return [W.bI];
Sisu: 1,
Sise: 1,
Sase: function() { return [W.bI];
Sisa_: 1,
Sasa_: function() { return [W.bI];
SisV: 1,
SasV: function() { return [W.bI];
}%: "SpeechRecognitionResultList",
ol: {":": "l+a4;", Sish: 1,
y = H.f([], [P.A])
for (x = z.length, w = 0; w < x; w++)
  if (w >= z.length) return H.a(z, w)
  v = z[w]
if (v.namespaceURI !== null) y.push(J.h3(v)) return y,
gG: function(a){ return this.ga9(this).length===0 },
gah: function(a){ return this.ga9(this).length!==0 },
$isU: 1,
$asU: function(){ return [P.A, P.A] },
rL: "^": "rB;a",
D: function(a, b){ return this.a.hasAttribute(b) },
h: function(a, b){ return this.a.getAttribute(b) },
k: function(a, b, c){ this.a.setAttribute(b, c) },
gi: function(a){ return this.ga9(this).length },
bj: "^": "d:a",
b4: "^": "aB;a, b, c",
al: function(a, b, c, d){ var z = new W.aH(0, this.a, this.b, W.aI(a), !1)
z.$builtinTypeInfo = this.$builtinTypeInfo
z.ao() return z },
bS: function(a, b, c){ return this.al(a, null, b, c) },
jy: "^": "b4:a, b, c",
aH: "^": "d7:a, b, c, d, e",
V: function(a){ if (this.b === null) return this.fl() this.b = null this.d = null return },
co: function(a, b){ if (this.b === null) return; ++this.a this.fl() },
bv: function(a){ return this.co(a, null) },
cr: function(a){ if (this.b === null) this.a <= 0 return; --this.a this.ao() },
ao: function(){ var z, y, x
  z = this.d
  y = z !== null
  if (y && this.a <= 0) { x = this.b x.toString
    y = z !== null
    if (y) J.kB(x, this.c, z, !1) }
  fl: function(){ var z, y, x
    z = this.d
    y = z !== null
    if (y) { x = this.b x.toString
      y = z !== null
      if (y) J.kD(x, this.c, z, !1) }
  ad: "^": "d:",
gL: function(a){ return new W.o_(a, this.gi(a), -1, null) },
K: function(a, b){ throw H.b(new P.w("Cannot add to immutable List.")) },
b3: function(a){ throw H.b(new P.w("Cannot remove from immutable List.")) },
Y:function(a,b){throw H.b(new P.w("Cannot remove from immutable List."))},
P:function(a,b,c,d,e){throw H.b(new P.w("Cannot setRange on immutable List."))},
a8:function(a,b,c,d){return this.P(a,b,c,d,0)},
aM:function(a,b,c,d){throw H.b(new P.w("Cannot modify an immutable List."))},
ak:function(a,b,c,d){throw H.b(new P.w("Cannot modify an immutable List."))},
$ish:1,
$ash:null,
$isu:1,
$sise:1,
$ase:null,
o_::{"^":"d;a,b,c,d"},
w:function(){var z,y
z=this.c+1
y=this.b
if(z<y){this.d=J.j(this.a,z)
this.c=z
return!0}this.d=null
this.c=y
return!1},
gF:function(){return this.d},
rI:{"^":"d;a","SisP":1,"Sis1":1,":{
rJ:function(a){if(a===window)return a
else return new W.rI(a)}}},["^","",P,"^",""],
uQ:function(a){var z,y,x,w,v
if(a==null)return
z=P.a5()
y=Object.getOwnPropertyNames(a)
for(x=y.length,w=0;w<y.length;x.length===x||H.an(y),++w){v=y[w
z.k(0,v,a[v])}return z},
uN:function(a){var z=H.f(new P.aG(H.f(new P.R(0,$.z,null),null)),null)
a.then(H.aC(new P.uO(z),1))
"catch"(H.aC(new P.uP(z),1))
return z.a},
ni:function(){var z=$.hF
if(z==null){z=J.fZ(window.navigator.userAgent,"Opera",0)
$.hF=z}return z},
hH:function(){var z=$.hG
if(z==null){z=P.ni()!==!0&&J.fZ(window.navigator.userAgent,"WebKit",0)
$.hG=z}return z},
tF:{"^":"d;"},
cf:function(a){var z,y,x
z=this.a
y=z.length
for(x=0;x<y;++x)if(z[x]===a)return x
z.push(a)
this.b.push(null)
return y},
aN:function(a){var z,y,x,w,v,u
z={"}
if(a==null)return a
if(typeof a==='boolean')return a
if(typeof a==='number')return a
if(typeof a==='string')return a
y=J.t(a)
if(!!y.$isbi)return new Date(a.a)
if(!!y.$isq_)throw H.b(new P.bq("structured clone of RegExp"))
if(!!y.$isbb)return a
if(!!y.$isdt)return a
if(!!y.$isi_)return a
if(!!y.$isi5)return a
if(!!y.$isfa||!!y.$isd_)
    return a
if(!!y.$isU){x=this.cf(a)
w=this.b
v=w.length
if(x>=v)return H.a(w,x)
u=w[x]
z.a=u
if(u!===null)return u
u=[]
z.a=u
if(x>=v)return H.a(w,x)
w[x]=u
y.O(a,new P.tH(z,this))
return z.a}if(!!y.$ish){x=this.cf(a)
z=this.b
if(x>=z.length)return H.a(z,x)
u=z[x]
if(u!=null)return u
return this.kx(a,x)}throw H.b(new P.bq("structured clone of other type")),
kx:function(a,b){var z,y,x,w,v
z=J.D(a)
y=z.gi(a)
x=new Array(y)
w=this.b
if(b>=w.length)return H.a(w,b)
w[b]=x
if(typeof y!=='number')return H.i(y)
v=0
for(v<y;++v){w=this.aN(z.h(a,v))
if(v>=x.length)return H.a(x,v)
x[v]=w}return x}}
tH:{"^":"m:3;a,b",
$2:function(a,b){this.a.a[a]=this.b.aN(b)}},
ro:{"^":"d:",
cf:function(a){var z,y,x,w
z=this.a
y=z.length
Open Source Used In Edge and Fog Processing Module 1.6.0

for(x=0;x<y;++x){w=z[x]
if(w==null?a==null:w===a)return x}z.push(a)
this.b.push(null)
return y},
aN:function(a){var z,y,x,w,v,u,t,s,r
z={}
if(a==null)return a
if(typeof a==='boolean')return a
if(typeof a==='number')return a
if(typeof a==='string')return a
if(a instanceof Date){y=a.getTime()
z=new P.bi(y,!0)
z.dw(y,!0)
return z}
if(a instanceof RegExp)throw H.b(new P.bq("structured clone of RegExp"))
if(typeof Promise!="undefined"&&a instanceof Promise)return P.uN(a)
x=Object.getPrototypeOf(a)
if(x===Object.prototype|x===null){w=this.cf(a)
v=this.b
u=v.length
if(w>=u)return H.a(v,w)
t=v[w]
z.a=t
if(t!=null)return t
t=P.a5()
z.a=t
if(w>=u)return H.a(v,w)
v[w]=t
this.kV(a,new P.rp(z,this))
return z.a}
if(a instanceof Array){w=this.cf(a)
z=this.b
if(w>=z.length)return H.a(z,w)
t=z[w]
if(t!=null)return t
v=J.D(a)
s=v.gl(a)
t=this.c?new Array(s):a
if(w>=z.length)return H.a(z,w)
z[w]=t
if(typeof s!=='number')return H.i(s)
z=J.ap(t)
r=0
for(r<s;++r)z.k(t,r,this.aN(v.h(a,r)))
return t}
return a],
} function(x){w=x
return w},
$2:function(a,b){var z,y
z=this.a.a
y=this.b.aN(b)
J.K(z,a,y)
$ash:function(){return[W.ar],
Sase:function(){return[W.ar]},
nX:{"^":"m:1;
S1:function(a){return!!J.t(a).$isar},
nY:{"^":"m:1;
S1:function(a){return H.aK(a,"Sisar")},
nZ:{"^":"m:1;
S1:function(a){return J.h5(a)}},
ud:function(a){var z,y
z=H.f(new P.jM(H.f(new P.R(0,$.z,null),[null])),[null])
a.toString
y=H.f(new W.b4(a,"success",1),[H.J(C.Z,0)])
H.f(new W.aH(0,y.a,y.b,sa.f(new P.uG(a,x)),1),[H.J(y,0)]).ao()
y=H.f(new W.b4(a,"error",1),[H.J(C.V,0)])
H.f(new W.aH(0,y.a,y.b,sa.f(z.gfZ()),1),[H.J(y,0)]).ao()
return z.a},
md:{"^":"d5:key="}%:"IDBCursor"},
vS:{"^":"md;"},
gaf6:function(a){var z,y
z=a.value
y=new P.d9([],[],1)
y.c=1
return y.aN(z)},
"%:"IDBCursorWithValue"},
vY:{"^":"P;I:name="}%:"IDBDatabase"},
ue:{"^":"m:1;a,b"},
S1:function(a){var z,y
z=this.a.result
y=new P.d9([],[],1)
y.c=1
this.b.aj(0,y.aN(z))},
oc:{"^":"l;I:name=",$isoc:1,$isd:1,"%:"IDBIndex"},
xj:{"^":"l;I:name="},
fo:function(a,b,c){var z,y,x,w,v
try{z=null
if(c!=null)z=this.fi(a,b,c)
else z=this.jn(a,b)
w=P.ud(z)
return w}catch(v){w=H.Y(v)
y=w
x=H.ae(v)
return P.j2(x,w,null)}},
K:function(a,b){return this.fo(a,b,null)},
fi:function(a,b,c){return a.add(new P.tG([],[],aN(b)))},
jn:function(a,b){return this.fi(a,b,null)},
"%:"IDBOpenDBRequest"}

xX:{"^":"P:ap:errors="}%:"IDBOpenDBRequest"},
yq:{"^":"P:ap:errors="}%:"IDBTransaction"},
"%:"P."}
function(a, b) {
    typeof a !== "number" || throw H.b(P.N(a))
    typeof b !== "number" && throw H.b(P.N(b))
    if (a > b) return b
    if (a < b) return a
    if (typeof b === "number") {
        if (typeof a === "number") {
            if (a !== 0)
                return (a + b) * a * b
            if (isNaNaN(b))
                return b
            return a
        } else
            return a
    } else
        return a
}

ko: function(a, b) {
    if (a > b) return a
    if (a < b) return b
    if (typeof b === "number") {
        if (typeof a === "number") {
            if (a !== 0)
                return a + b
            if (isNaN(b))
                return b
            return a
        } else
            return a
    } else
        return a
}

t6: "^": "d;",
R: function(a) {
    if (a <= 0 || a > 4294967296) throw H.b(P.IJ("max must be in range 0 < max \u2264 2^32, was " + a))
    return Math.random() * a >>> 0
}
lo: function() {
    return Math.random()
}
tr: "^": "d; a, b",
bE: function() {
    var z, y, x, w, v, u
    z = this.a
    y = 4294901760 * z
    x = (y & 4294967295) >>> 0
    w = 55905 * z
    v = (w & 4294967295) >>> 0
    u = v + x + this.b
    z = (u & 4294967295) >>> 0
    this.a = z
    this.b = (C.b.a0(w - v + (y - x) + (u - z), 4294967296) & 4294967295) >>> 0
}
R: function(a) {
    var z, y, x
    if (a <= 0 || a > 4294967296) throw H.b(P.IJ("max must be in range 0 < max \u2264 2^32, was " + a))
    z = a - 1
    if (((z & z) === 0) || (this.bE()))
        return (this.a & z) >>> 0
    do {
        this.bE()
        y = this.a
        x = y % a
        while (y - x + a >= 4294967296)
    } while (this.a & z) >>> 0
    return x
}
iM: function(a) {
    var z, y, x, w, v, u, t, s
    z = a < 0 ? -1 : 0
    do {
        y = (a & 4294967295) >>> 0
    } while (y & 21) >>> 0
    a = C.d.a0(a - y, 4294967296)
    x = (a & 4294967295) >>> 0
    a = C.d.a0(a - x, 4294967296)
    w = ((~y & 4294967295) >>> 0) + (y & 21) >>> 0
    v = (w & 4294967295) >>> 0
    x = (~x) >>> 0 + (x & 21) >>> 0 + 11 >>> 0 + C.b.a0(w - v, 4294967296) & 4294967295
    w = ((v ^ (v >>> 24 | x << 8)) >>> 0) * 265
    y = (w & 4294967295) >>> 0
    x = (x >>> 24) >>> 0 * 265 + C.b.a0(w - y, 429467296) & 4294967295
Open Source Used In Edge and Fog Processing Module 1.6.0

w=((y^y>>>14|x<<18))>>>0)*21
y=(w&4294967295)>>>0
x=((x^x>>>14))>>>0
w=(y<<31+y)+y
v=(w&4294967295)>>>0
u=C.b.a0(w-v,4294967296)
w=this.a*1037
t=(w&4294967295)>>>0
this.a=t
s=(this.b*1037+C.b.a0(w-t,4294967296)>>0)
this.b=t
if(u===0&&t===0)this.a=23063
this.bE()
this.bE()
this.bE()
this.bE(),
C:{
ts:function(a){var z=new P.tr(0,0)
z.iM(a)
return z})},
.tt:function(a){return a.length}
gi:function(a){return a.length}
h:function(a,b){if(b>>0!==b||b>a.length)throw H.b(P.a3(b,a,null,null,null))
return a.getItem(b),
k:function(a,b,c){throw H.b.new(P.w("Cannot assign element of immutable List."))},}
si:function(a,b){throw H.b(new P.w("Cannot resize immutable List."))},
gM:function(a){ var z=a.length
if(z>0)return a[z-1]
throw H.b(new P.I("No elements"))},
N:function(a,b){return this.h(a,b)},
$ish:1,
$ash:function(){return[P.ct]},
$isu:1,
$ise:1,
$ase:function(){return[P.ct]},
"%":"SVGLengthList"},on:{"^":"l+a4;"},$ish:1,
$ash:function(){return[P.ct]},
$isu:1,
$ise:1,
$ase:function(){return[P.ct]},
oI:{"^":"on+ad;"},$ish:1,
$ash:function(){return[P.ct]},
$isu:1,
$ise:1,
$ase:function(){return[P.ct]},
"%":"SVGMarkerElement"},wU:{"^":"a1:E:x="},$isl:1,
"%":"SVGNumber"},xh:{"^":"oJ;"},
gi:function(a){return a.length},
h:function(a,b){if(b>>>0!==b||b>=a.length)throw H.b(P.a3(b,a,null,null,null))
return a.getItem(b)},
k:function(a,b,c){throw H.b(new P.w("Cannot assign element of immutable List."))},
si:function(a,b){throw H.b(new P.w("Cannot resize immutable List."))},
gM:function(a){ var z=a.length
if(z>0)return a[z-1]
throw H.b(new P.I("No elements"))},
N:function(a,b){return this.h(a,b)},
$ish:1,
$ash:function(){return[P.ct]},
$isu:1,
$ise:1,
$ase:function(){return[P.ct]},
"%":"SVGLengthList"},oo:{"^":"l+a4;"},$ish:1,
$ash:function(){return[P.ct]},
$isu:1,
$ise:1,
$ase:function(){return[P.ct]},
oJ:{"^":"oo+ad;"},$ish:1,
$ash:function(){return[P.ct]},
$isu:1,
$ise:1,
$ase:function(){return[P.ct]},
aH:{"^":"l;"},
"%":"SVGPathSegClosePath|SVGPathSegLinetoVerticalAbs|SVGPathSegLinetoVerticalRel;SVGPathSeg"},xo:{"^":"ah:E:x="},
"%":"SVGNumber"},xp:{"^":"ah:E:x="},
"%":"SVGPathSegArcAbs"},xq:{"^":"ah:E:x="},
"%":"SVGPathSegCurvetoCubicAbs"},xr:{"^":"ah:E:x="},
"%":"SVGPathSegCurvetoCubicRel"},xs:{"^":"ah:E:x="},
"%":"SVGPathSegCurvetoCubicSmoothAbs"},xt:{"^":"ah:E:x="},
"%":"SVGPathSegCurvetoCubicSmoothRel"},xu:{"^":"ah:E:x="},
"%":"SVGPathSegCurvetoQuadraticAbs"},xv:{"^":"ah:E:x="},
"%":"SVGPathSegCurvetoQuadraticRel"},xw:{"^":"ah:E:x="},
"%":"SVGPathSegCurvetoQuadraticSmoothA
bs"}, xx: {"^": "ah;E:x="}, x: {"^": "SVGPathSegMovetoAbs"}, xz: {"^": "ah;E:x="}, xA: {"^": "ah;E:x="}, xB: {"^": "ah;E:x="}, xC: {"^": "oK;"},
    gi: function(a) {return a.length},
h: function(a, b) {if (b >>> 0 !== b || b >= a.length) throw H.b(P.a3(b, a, null, null, null))
    return a.getItem(b)},
k: function(a, b, c) {throw H.b(new P.w("Cannot assign element of immutable List.") )},
si: function(a, b) {throw H.b(new P.w("Cannot resize immutable List.") )},
gM: function(a) { var z = a.length
    if (z > 0) return a[z - 1]
    throw H.b(new P.I("No elements");)},
N: function(a, b) {return this.h(a, b)},
    Sish: function() { return [P.ah]; },
    $ish: 1,
    $ase: function() { return [P.ah]; },
    $a: function() { return [P.ah]; },
    $o: function() { return [P.ah]; },
    op: {"^": "l+a4;"},
    $ash: function() { return [P.ah]; },
    $isu: 1,
    $ise: 1,
    $ase: function() { return [P.ah]; },
    
    "%": "SVGPathSegList"},
    op: {"^": "1+a4;"},
    $ash: function() { return [P.ah]; },
    $isu: 1,
    $ise: 1,
    $ase: function() { return [P.ah]; },
    oK: {"^": "op+ad;"},
    Si: function() { return [P.ah]; },
    Sish: function() { return [P.ah]; },
    Sisu: 1,
    $ise: 1,
    $ase: function() { return [P.ah]; },
    xd: {"^": "ah;E:x="},
    xE: {"^": "SVGPathSegMovetoAbs"},
    xF: {"^": "1;E:x="},
    xK: {"^": "1;E:x="},
    xL: {"^": "1;E:x="},
    xM: {"^": "1;E:x="},
    xN: {"^": "1;E:x="},
    xO: {"^": "1;E:x="},
    xP: {"^": "1;E:x="},
    xQ: {"^": "1;E:x="},
    xR: {"^": "1;E:x="},
    xS: {"^": "1;E:x="},
    xT: {"^": "1;E:x="},
    xU: {"^": "1;E:x="},
    xV: {"^": "1;E:x="},
    xW: {"^": "1;E:x="},
    xX: {"^": "1;E:x="},
    xY: {"^": "1;E:x="},
    xZ: {"^": "1;E:x="},
    y0: {"^": "a1;"},
    $isu: 1,
    $ise: 1,
    $ase: function() { return [P.A]; },
    $ash: function() { return [P.A]; },
    $isu: 1,
    $ise: 1,
    $ase: function() { return [P.A]; },
    $a: function() { return [P.A]; },
    $o: function() { return [P.A]; },
    op: {"^": "l+a4;"},
    $ash: function() { return [P.A]; },
    $isu: 1,
    $ise: 1,
    $ase: function() { return [P.A]; },
    oL: {"^": "oq+ad;"},
    Si: function() { return [P.A]; },
    Sish: function() { return [P.A]; },
    Sisu: 1,
$ase:function() { return[P.q] } ]},["", ",", P, ["^": ",", vD: ["^": ",", i: length = ",", ":": "AudioBuffer" ]}.lv: ["^": "P", ",", ":": "AnalyzerNode", AudioBufferSourceNode, AudioChannelMerger, AudioChannelSplitter, AudioDestinationNode, AudioGainNode, AudioPannerNode, AudioSourceNode, BiquadFilterNode, ChannelMergerNode, ChannelSplitterNode, ConvolverNode, DelayNode, DynamicsCompressorNode, GainNode, JavaScriptAudioNode, MediaElementAudioSourceNode, MediaStreamAudioDestinationNode, MediaStreamAudioSourceNode, Oscillator, OscillatorNode, PannerNode, RealtimeAnalyzerNode, ScriptProcessorNode, StereoPannerNode, webkitAudioPannerNode, AudioNode }, vE: ["^": "l", a6: value = ",", ":": "AudioParam" ], yz: ["^": ",", lv: ":": "AudioParam" ], lv: ["^": "AudioParam" ], yz: ["^": "AudioParam" ], lv: ["^": "AudioParam" ], yz: ["^": "AudioParam" ], lv: ["^": "AudioParam" ], yz: ["^": "AudioParam" ], lv: ["^": "AudioParam" ], yz: ["^": "AudioParam" ], lv: ["^": "AudioParam" ], yz: ["^": "AudioParam" ], lv: ["^": "AudioParam" ], yz: ["^": "AudioParam" ]}, ["", ",", P, ["^": ",", vW: ["^": ",", lv: $isl: 1, ":": "WebGLActiveInfo" ], xW: ["^": ",", Sisl: 1, ":": "WebGL2RenderingContext" ], yX: ["^": ",", Sisl: 1, ":": "WebGL2RenderingContextBase" ]}], ["", ",", P, ["^": ",", yC: ["^": "lab:message = ",", ":": "SQLResultSetRowList" ], os: ["^": "+a4", $ish: 1, $isu: 1, $ise: 1, $ase:function() { return[P.U] } }, oN: ["^": "os+ad", $ish: 1, $isu: 1, $ise: 1, $ase:function() { return[P.U] } }, oN: ["^": "os+ad", $ish: 1, $isu: 1, $ise: 1, $ase:function() { return[P.U] } }], ["", ",", Z, ["^": "", lK:function() { if($.$get$bX()===!0) { return z.a5(0) } var z.B.H(null, null, null) z.a5(0) return z } else return N.a8(0, null, null), bx:function() { if($.$get$bX()===!0) { return z.a5(1) } var z.B.H(null, null, null) z.a5(1) return z } else return N.a8(1, null, null), co:function() { if($.$get$bX()===!0) { return z.a5(2) } var z.B.H(null, null, null) z.a5(2) return z } else return N.a8(2, null, null), lK:function() { if($.$get$bX()===!0) { return z.a5(3) } var z.B.H(null, null, null) z.a5(3) return z } else return N.a8(3, null, null), aZ.function(a,b,c){if($.$get$bX()==!=0)return B.H(a,b,c) else return N.a8(a,b,c)}, bg:function(a,b){var z,y,x if($.$get$bX()==!=0){if(a==!=0)H.x(P.N("Argument signum must not be zero"))}}

Open Source Used in Edge and Fog Processing Module 1.6.0

671
if(0>=b.length)return H.a(b,0)
if(J.n(J.c(b[0],128),0)){z=H.a6(1+b.length)
y=new Uint8Array(z)
if(0>=z)return H.a(y,0)
y[0]=0
C.h.a8(y,1,1+b.length,b)
b=y;x=B.H(b,null,null)
return x}else{x=N.a8(null,null,null)
if(a!==0)x.ek(b,!0)
else x.ek(b,1)
return x}

if(0>=b.length)return H.a(b,0)
if(!J.n(J.c(b[0],128),0)){z=H.a6(1+b.length)
y=new Uint8Array(z)
if(0>=z)return H.a(y,0)
y[0]=0
C.h.a8(y,1,1+b.length,b)
b=y;x=B.H(b,null,null)
return x}

if(0>=b.length)return H.a(b,0)
if(!J.n(J.c(b[0],128),0)){z=H.a6(1+b.length)
y=new Uint8Array(z)
if(0>=z)return H.a(y,0)
y[0]=0
C.h.a8(y,1,1+b.length,b)
b=y;x=B.H(b,null,null)
return x}

if(0>=b.length)return H.a(b,0)
if(!J.n(J.c(b[0],128),0)){z=H.a6(1+b.length)
y=new Uint8Array(z)
if(0>=z)return H.a(y,0)
y[0]=0
C.h.a8(y,1,1+b.length,b)
b=y;x=B.H(b,null,null)
return x}

if(0>=b.length)return H.a(b,0)
if(!J.n(J.c(b[0],128),0)){z=H.a6(1+b.length)
y=new Uint8Array(z)
if(0>=z)return H.a(y,0)
y[0]=0
C.h.a8(y,1,1+b.length,b)
b=y;x=B.H(b,null,null)
return x}

if(0>=b.length)return H.a(b,0)
if(!J.n(J.c(b[0],128),0)){z=H.a6(1+b.length)
y=new Uint8Array(z)
if(0>=z)return H.a(y,0)
y[0]=0
C.h.a8(y,1,1+b.length,b)
b=y;x=B.H(b,null,null)
return x}

if(0>=b.length)return H.a(b,0)
if(!J.n(J.c(b[0],128),0)){z=H.a6(1+b.length)
y=new Uint8Array(z)
if(0>=z)return H.a(y,0)
y[0]=0
C.h.a8(y,1,1+b.length,b)
b=y;x=B.H(b,null,null)
return x}

if(0>=b.length)return H.a(b,0)
if(!J.n(J.c(b[0],128),0)){z=H.a6(1+b.length)
y=new Uint8Array(z)
if(0>=z)return H.a(y,0)
y[0]=0
C.h.a8(y,1,1+b.length,b)
b=y;x=B.H(b,null,null)
return x}
y=this.a
if(z){x=J.bV(J.bS(y),16)
w=!0}else{x=J.bV(y,16)
w=!1}v=x.length
u=C.b.a0(v+1,2)
if(w){t=(v&1)===1?-1:0
s=J.bS(H.aA(C.a.H(x,0,t+2),16,null))
z=J.o(s)
if(z.u(s,-128))s=z.j(s,256)
if(J.a9(s,0)){z=new Array(u+1)
z.fixedSlengh=Array
r=H.f(z,[P.q])
z=r.length
if(0>=z)return H.a(r,0)
r[0]=-1
if(1>=z)return H.a(r,1)
r[1]=s
q=1}else{z=new Array(u)
z.fixedSlengh=Array
r=H.f(z,[P.q])
if(0>=r.length)return H.a(r,0)
r[0]=s
q=0}for(z=r.length,p=1;p<u;++p){y=t+(p<<1>>>0)
o=J.bS(H.aA(C.a.H(x,y,y+2),16,null))
y=J.o(o)
if(y.u(o,-128))o=y.j(o,256)
y=p+q
if(y>=z)return H.a(r,y)
if(y==o})else{t=(v&1)===1?-1:0
s=H.aA(C.a.H(x,0,t+2),16,null))
z=J.o(s)
if(z.B(s,127))s=z.m(s,256)
if(J.E(s,0)){z=new Array(u+1)
z.fixedSlengh=Array
r=H.f(z,[P.q])
z=r.length
if(0>=z)return H.a(r,0)
r[0]=0
if(1>=z)return H.a(r,1)
r[1]=s
q=1}else{z=new Array(u)
z.fixedSlengh=Array
r=H.f(z,[P.q])
if(0>=r.length)return H.a(r,0)
r[0]=s
q=0}for(z=r.length,p=1;p<u;++p){y=t+(p<<1>>>0)
o=H.aA(C.a.H(x,y,y+2),16,null)
y=J.o(o)
if(y.B(o,127))o=y.m(o,256)
y=p+q
if(y>=z)\{return H.a(r,y)
r[y]=o \}
return r;
e6:function(a)\{return N.a8(J.c(this.a,J.af(a)),null,null\});
dt:function(a)\{return N.a8(J.C(this.a,a),null,null\});
er:function(a)\{var z,y
if(J.n(a,0))return-1
for(z=0;y=J.o(a),J.n(y.l(a,129),0);){a=y.n(a,32)
z+=32}if(J.n(y.l(a,65535),0)){a=y.n(a,16)
z+=16}y=J.o(a)
if(J.n(y.l(a,255),0)){a=y.n(a,8)
z+=8}y=J.o(a)
if(J.n(y.l(a,15),0)){a=y.n(a,4)
z+=4}y=J.o(a)
if(J.n(y.l(a,3),0)){a=y.n(a,2)
z+=2}return J.n(J.c(a,1),0)?z+1:z\},
ghg:function()\{return this.ert(this.a)\},
bg:function(a)\{return!J.n(J.c(this.a,C.b.X(1,a)),0)
K:function(a,b)\{return N.a8(J.p(this.a,J.af(b)),null,null\}),
aV:function(a,b)\{return N.a8(J.Ie(this.a,b.gW(b)),null,null\}),
aL:function(a,b,c)\{return N.a8(J.kc(this.a,J.af(b),J.af(c)),null,null\}),
d8:function(a,b)\{return N.a8(J.Ib(this.a,J.af(b)),null,null\}),
j:function(a,b)\{return N.a8(J.p(this.a,J.af(b)),null,null\}),
m:function(a,b)\{return N.a8(J.Gr(this.a,J.af(b)),null,null\}),
v:function(a,b)\{return N.a8(J.aw(this.a,J.af(b)),null,null\}),
A:function(a,b)\{return N.a8(J.ci(this.a,J.af(b)),null,null\}),
A8:function(a,b)\{return N.a8(J.kC(this.a,J.af(b)),null,null\}),
av:function(a)\{return N.a8(J.em(this.a),null,null\}),
u:function(a,b)\{return J.E(this.S(0,b),0)&&!0\},
ae:function(a,b)\{return J.ch(this.S(0,b),0)&&!0\},
B:function(a,b)\{return J.T(this.S(0,b),0)&&!0\},
J:function(a,b)\{return J.a9(this.S(0,b),0)&&!0\},
q:function(a,b)\{if(b==null)return!1
return J.n(this.S(0,b),0)&&!0\},
l:function(a,b)\{return N.a8(J.c(this.a,J.af(b)),null,null\}),
cC:function(a,b)\{return N.a8(J.B(this.a,J.af(b)),null,null\}),
at:function(a,b)\{return N.a8(J.r(this.a,J.af(b)),null,null\}),
ar:function(a)\{return N.a8(J.bS(this.a),null,null\}),
X:function(a,b)\{return N.a8(J.v(this.a,b),null,null\}),
n:function(a,b)\{return N.a8(J.C(this.a,a),null,null\}),
ix:function(a,b,c)\{if(a!=null)if(typeof a==='number'&&Math.floor(a)==a)this.a=a
else if(typeof a==='number')this.a=C.d.b5(a)
else if(!(J.t(a).ish))this.kW(a)
else this.bK(a,b)\},
Sisds:1,
C:\n a8:function(a,b,c)\{var z=new N.h8(null)
z.(a,b,c)
return z}) }],G: {"^": "m:1;",
$1: function(a) {return 0 } },G: {"^", "B", {"^", "IZ": {"^": "d;a",a4: function(a) {if(J.E(a.d,0) || J.a9(a.S(0,this.a),0)) return a.d7(this.a) else return a },
eF: function(a) {return a },
d9: function(a,b,c) {a.da(b,c)
c.b1(this.a,null,c) },
b1: function(a,b) {a.cE(b)
b.b1(this.a,null,b) }),pF: {"^": "d;a,b,c,d,e,f",
a4: function(a) {var z,y,x,w
z=B.H(null,null,null)
y=J.E(a.d,0)?a.b2():a
x=this.a
y.cd(x.gby().z)
z.b1(x.null,z)
if(J.E(a.d,0)) {w=B.H(null,null,null)
w.a5(0)
y=J.T(z.S(0,w),0) else y=!1
if(y)x.Z(z,z)
return z },
eF: function(a) {var z=B.H(null,null,null)
a.b0(0,z)
this.bx(0,z)
return z },
bx: function(a,b) {var z,y,x,w,v,u,t
z=b.gay()
while(!0) {y=b.c
x=this.f
if(typeof y!="number") return y.ae()
if(!(y<=x)) break
x=y+1
b.c=x
if(y>J.y(z.a)-1) J.M(z.a,x)
J.K(z.a,y,0) } y=this.a
w=0
while(!0) {x=y.gby()
if(typeof x!="number") return H.i(x)
if(!(w<x)) break
v=J.c(J.j(z.a,w),32767)
x=J.am(v)
u=J.c(J.p(x.v(v,this.c),J.v(J.c(J.p(x.v(v,this.d),J.aw(J.C(J.j(z.a,w),15),this.c),this.e),15)),this.c),this.e),15),S.ay)
x=y.c
if(typeof x!="number") return H.i(x)
v=w+x
x=J.j(z.a,v)
t=y.c
t=J.p(x,y.b.$6(0,u,b,w,0,t))

Open Source Used In Edge and Fog Processing Module 1.6.0
675
if(v>J.y(z.a)-1)J.M(z.a,v+1)
J.K(z.a,v,t)
for(;i9(J.j(z.a,v),$.aE);){x=J.G(J.j(z.a,v),$.aE)
if(v>J.y(z.a)-1)J.M(z.a,v+1)
J.K(z.a,v,x);++v
x=J.p(J.j(z.a,v),1)
if(v>J.y(z.a)-1)J.M(z.a,v+1)
J.K(z.a,v,x,1)}++w}
bl:function(a,b){a.cE(b)
this.bx(0,b),
d9:function(a,b,c){a.da(b,c)
this.bx(0,c)},lw:{"\":":d;a,b,c,d".
a4:function(a){var z,y,x
if(!J.E(a.d,0)){z=a.c
y=this.a.gby()
if(typeof y!="number")return H.i(y)
if(typeof z!="number")return z.B()
y=z>2*y
y=z
else z=0
if(z)return a.d7(this.a)
else if(J.E(a.S(0,0),a.d,0))return a
else{x=B.H(null,null,null)
a.b0(0,x)
this.bx(0,x)
return x}
},eF:function(a){return a},
bx:function(a,b){var z,y,x,w
z=this.a
y=z.gby()
if(typeof y!="number")return y.m()
b.cY(y-1,this.b)
y=b.c
x=z.c
if(typeof x!="number")return x.j()
if(typeof y!="number")return y.B()
y=x+1)
y=z.c
if(typeof y!="number")return y.j()
b.c=y+1
b.au(0)y=thid.d
x=this.b
w=z.c
if(typeof w!="number")return w.j()
y.ln(x,w+1,this.c)
w=this.c
x=z.c
if(typeof x!="number")return x.j()
z.lm(w,x+1,this.b)
for(J.E(b.S(0,this.b),0);{y=z.c
if(typeof y!="number")return y.j()
b.ee(1,y+1)}b.Z(this.b,b)
for(J.a9(b.S(0,z),0);b.Z(z,b)},
bl:function(a,b){a.cE(b)
this.bx(0,b)}
d9:function(a,b,c){a.da(b,c)
this.bx(0,c)} ia:{"^":"d;W:a*",
h:function(a,b){return J.j(this.a,b)},
k:function(a,b,c){var z=J.o(b)
if(z.B(b.J.y(this.a)-1))J.M(this.a.z,j(b,1))
J.K(this.a,b,c)
return c}),
C::{"^":"d;ay:a<,b,by:c<,eV:d<,e",
ml:function(a,b,c,d,e,f){var z,y,x,w,v,u,t,s,r,q,p
z=this.a
y=c.gay()
x=J.or(b).b5(b)&16383
w=C.b.a_(C.d.b5(b),14)
for(;f=J.G(f,1),J.a9(f,0);d=p,a=u){v=J.c(J.j(z.a,a),16383)
u=J.p(a,1)
t=J.C(J.j(z.a,a),14)
if(typeof v!="number")return H.i(v)
s=J.aw(t,x)
if(typeof s!="number")return H.i(s)
r=w*v+s
s=J.j(y.a,d)
if(typeof s!="number")return H.i(s)
if(typeof e!="number")return H.i(e)
v=x*v+((r&16383)<<14>>>0)+s+e
s=C.d.a_(v,28)
q=C.d.a_(r,14)
if(typeof t!="number")return H.i(t)
e=s+q+w*t
q=J.am(d)
p=q.j(d,1)
if(q.B(d,J.y(y.a)-1))J.M(y.a,q.j(d,1))
J.K(y.a,d,v&268435455) return e},"$6","giU",12,0,25]
b0:function(a,b){var z,y,x,w
z=this.a
y=b.gay()
x=this.c
if(typeof x!="number")return x.m()
w=x-1
for(;w>=0;--w){x=J.j(z,a,w)
if(w>J.y(y.a)-1))J.M(y,a,1)
J.K(y.a,w,x) b,c=this.c
b.d=this.d,

Open Source Used In Edge and Fog Processing Module 1.6.0

677
a5: function(a) { var z, y
    z = this.a
    c = 1
    d = a < 0 ? -1 : 0
    if (a > 0) z.k(0, 0, a)
    else if (a < -1) { y = $.aE
        if (typeof y !== "number") return H.i(y)
        z.k(0, 0, a + y)
    } else this.c = 0;
    bK: function(a, b) { var z, y, x, w, v, u, t, s, r, q, p, o, n, m
        z = this.a
        if (b === 16) y = 4
        else if (b === 8) y = 3
        else if (b === 256) y = 8
        else if (b === 2) y = 1
        else if (b === 32) y = 5
        else if (!((b === 4))) { this.kX(a, b)
            return y = 2
        } this.c = 0
        d = 0
        x = J.D(a)
        w = x.gi(a)
        for (v = y === 8, u = !1, t = 0; w = J.G(w, 1), J.a9(w, 0);)
            { if (v)
                s = J.c(x.h(a, w), 255)
            } else { r = $.bw.h(0, x.t(a, w))
                s = r === null ? -1 : r
            } o = this.c
            if (typeof o !== "number") return o.m()
            p = o - 1
            o = J.j(z.a, p)
            n = $.Z
            if (typeof n !== "number") return n.m()
            n = J.B(o, J.v(q.l(s, C.b.X(1, n - t) - 1), t))
            if (p > J.y(z.a - 1)) J.M(z.a, p + 1)
            J.K(z.a, p, n)
            p = this.c
            if (typeof p !== "number") return p.j()
            o = p + 1
            this.c = o
            n = $.Z
            if (typeof n !== "number") return n.m()
            n = q.n(s, n - t)
            if (p > J.y(z.a - 1)) J.M(z.a, o)
J.K(z.a,p,\text{else})\{\text{if(typeof o!="number")return o.m()}
\text{p=}0-1
q=J.B(J.j(z.a,p).q.X(s,t))
\text{if(p>j.y(z.a)-1)J.M(z.a,p+1)}
J.K(z.a,p,q)\}t+=y
q=$.Z$
\text{if(typeof q!="number")return H.i(q)}
\text{if(t>=q)t=q}
u=1\text{ if(v&&!J.n(J.c(x.h(a,0),128),0))}\text{this.d=}1
\text{if(t>0)x=this.c}
\text{if(typeof x!="number")return x.m();--x}
v=J.j(z.a,x)
q=$.Z$
\text{if(typeof q!="number")return q.m()}
\text{z.k(0,J.B(v,C.b.X(C.b.X(1,q-t)-1,t)))}\text{this.au(0)}
\text{if(u)\{m=B.H(null,null,null)}
\text{m.a5(0)}
\text{m.Z(this,this)}}\}
dh:function(a,b)\{\text{if(J.E(this.d,0))return"-"+this.b2().dh(0,b)}
\text{return this.m2(b)}\},
p:function(a)\{\text{return this.dh(a,null)}\},
b2:function()\{\text{var z,y}
z=B.H(null,null,null)
y=B.H(null,null,null)
y.a5(0)
y.Z(this,z)
return z\},
c9:function(a)\{\text{return J.E(this.d,0)?this.b2():this}\},
S:function(a,b)\{\text{var z,y,x,w,v}
\text{if(typeof b==='number')b=B.H(b,null,null)}
z=this.a
y=b.gay()
x=J.G(this.d,b.d)
\text{if(!J.n(x,0))return x}
w=this.c
v=b.c
\text{if(typeof w==='number')return w.m()}
\text{if(typeof v==='number')return H.i(v)}
x=w-v
\text{if(x==0)return x}
\text{for(;--w,w>0;}{x=J.G(J.j(z.a,w),J.j(y.a.w))}
\text{if(J.n(x,0))return x}return 0\},
ew:function(a)\{\text{var z,y}
\text{if(typeof a==='number')a=C.d.b5(a)}
z=J.C(a,16)
\text{if(!J.n(z,0))}\{a=z}
y=17\text{ else y=1}
z=J.C(a,8)
if(!J.n(z,0)){y+=8
a=z}z=J.C(a,4)
if(!J.n(z,0)){y+=4
a=z}z=J.C(a,2)
if(!J.n(z,0)){y+=2
a=z}return!J.n(J.C(a,1),0)?y+1:y}.
aR:[function(a){var z,y,x
z=this.a
y=this.c
if(typeof y!="number")return y.ae()
if(y<=0)return 0
x=$.Z;--y
if(typeof x!="number")return x.v()
return x*y+this.ew(J.r(J.j(z.a,y),J.c(this.d,$.ay))))","0","gcV",0,0,15],
cd:function(a,b){var z,y,x,w,v
z=this.a
y=b.a
x=this.c
if(typeof x!="number")return x.m()
w=x-1
for(;w>=0;--w){if(typeof a!="number")return H.i(a)
x=w+a
v=J.j(z.a,x)
if(x>J.y(y.a)-1)J.M(y.a,x+1)
J.K(y.a,x,v)}if(typeof a!="number")return x.j()
b.c=x+a
b.d=this.d},
cY:function(a,b){var z,y,x,w,v,u,t,s,r,q
z=this.a
y=b.a
x=a
while(!0){w=this.c
if(typeof x!="number")return x.u()
if(typeof w!="number")return H.i(w)
if(!(x<w))break
if(typeof a!="number")return H.i(a)
w=x-a
v=J.j(z,a,x)
if(w>J.y(y,a)-1)J.M(y,a,w+1)
J.K(y,a,w,v);++x}if(typeof a!="number")return H.i(a)
b.c=P.ko(w-a,0)
b.d=this.d},
d6:function(a,b){var z,y,x,w,u,t,s,r,q
z=this.a
...
y=b.gay()
x=J.o(a)
w=x.A(a,$.Z)
v=$.Z
if(typeof v!="number")return v.m()
if(typeof w!="number")return H.i(w)
u=v-w
t=C.b.X(1,u)-1
s=x.aB(a,v)
r=J.c(J.v(this.d,w),$.ay)
x=this.c
if(typeof x!="number")return x.m()
q=x-1
for(q>=0;--q){if(typeof s!="number")return H.i(s)
x=q+s+1
v=J.B(J.C(J.j(z,a,q),u),r)
if(x>J.y(y.a)-1)J.M(y.a,x+1)
J.K(y.a,v)
r=J.v(J.c(J.j(z,a,q),t),w)}for(q=J.G(s,1);x=J.o(q),x.J(q,0);q=x.m(q,1)){if(x.B(q,J.y(y.a)-1))J.M(y.a,x.j(q,1))
J.K(y.a,q,0)}y.k(0,s,r)
x=this.c
if(typeof x!="number")return x.j()
if(typeof s!="number")return H.i(s)
b.c=x+s+1
b.d=this.d
b.au(0),
aU:function(a,b){var z,y,x,w,v,u,t,s,r,q,p
z=this.a
y=b.gay()
b.d=this.d
x=J.o(a)
w=x.aB(a,$.Z)
v=J.o(w)
if(v.J(w,this.c)){b.c=0
return }u=x.A(a,$.Z)
x=$.Z
if(typeof x!="number")return x.m()
if(typeof u!="number")return H.i(u)
t=x-u
s=C.b.X(1,u)-1
y.k(0,0,J.C(J.j(z,a,w),u))
for(r=J.v(w,1);x=J.o(r),x.u(r,this.c);r=x.j(r,1)){v=J.G(x.m(r,w),1)
q=J.B(J.j(y.a,v),J.v(J.c(J.j(z,a,r),s),t))
p=J.o(v)
if(p.B(J.y(y.a)-1))J.M(y.a,p.j(v,1))
J.K(y.a,v,q)
v=x.m(r,w)
q=J.C(J.j(z,a,r),u)
\[ p = J.0(v) \]
\[ \text{if}(p.B(v,J.y(y.a)-1))J.M(y.a.p.j(v.1)) \]
\[ J.K(y.a,v,q) \text{if}(u>0)(x=\text{this.c}) \]
\[ \text{if}(\text{typeof } x!="number") \text{return } H.i(w) \]
\[ x=x-w-1 \]
\[ y.k(0,x,J.B(J.j(y.a,x),J.v(J.c(this.d,s),t)))) \text{x=\text{this.c}} \]
\[ \text{if}(\text{typeof } x!="number") \text{return } x.m() \]
\[ \text{if}(\text{typeof } w!="number") \text{return } H.i(w) \]
\[ b.c=x-w \]
\[ b.au(0), \]
\[ \text{au:}\text{function}(a)\{ \var z, y, x \]
\[ z=\text{this.a} \]
\[ y=J.c(this.d,$.ay) \]
\[ \text{while}(0)\{ x=\text{this.c} \]
\[ \text{if}(\text{typeof } x!="number") \text{return } x.B() \]
\[ \text{if}(!(x>0&&J.n(J.j(z.a,x-1),y))) \text{break} \]
\[ x=\text{this.c} \]
\[ \text{if}(\text{typeof } x!="number") \text{return } x.m() \]
\[ \text{this.c=x-1} \} \}
\[ Z: \text{function}(a,b)\{ \var z, y, x, w, v, u, t, s, r \]
\[ z=\text{this.a} \]
\[ y=b.gay() \]
\[ x=a.gay() \]
\[ w=P.dl(a,c,\text{this.c}) \]
\[ \text{for}(v=0,u=0;v<w;v=t)\{ u+=C.b.b5(J.Q(J.j(z.a,v))-J.Q(J.j(x.a,v))) \]
\[ t=v+1 \]
\[ s=$.ay \]
\[ \text{if}(\text{typeof } s!="number") \text{return } H.i(s) \]
\[ \text{if}(v>J.y(y.a)-1)J.M(y.a.t) \]
\[ J.K(y.a,v,(u&s)>>0) \]
\[ s=$.Z \]
\[ \text{if}(\text{typeof } s!="number") \text{return } H.i(s) \]
\[ u=C.b.a _(u,s) \]
\[ \text{if}(u==4294967295)u=1 \} s=a.c \]
\[ r=\text{this.c} \]
\[ \text{if}(\text{typeof } r!="number") \text{return } s.u() \]
\[ \text{if}(\text{typeof } r!="number") \text{return } H.i(r) \]
\[ \text{if}(s<r)\{ s=a.d \]
\[ \text{if}(\text{typeof } s!="number") \text{return } H.i(s) \]
\[ u=s \]
\[ \text{while}(0)\{ s=\text{this.c} \]
\[ \text{if}(\text{typeof } s!="number") \text{return } H.i(s) \]
\[ \text{if}(!(v<s))\text{break} \]
\[ s=J.j(z.a,v) \]
\[ \text{if}(\text{typeof } s!="number") \text{return } H.i(s) \]
\[ u+=s \]
\[ t=v+1 \]

Open Source Used In Edge and Fog Processing Module 1.6.0

682
b.c=v+u
for(;--v,v>=0;){if(v>J.y(z.a)-1)J.M(z.a,v+1)
J.K(z.a,v,0)}v=0
while(!0){u=x.c
if(typeof u!="number")return H.i(u)
if(!v<u)break
u=y.c
if(typeof u!="number")return H.i(u)
u=v+u
t=J.j(w.a,v)
s=y.c
s=y.b.$6(0,t,b.v,0,s)
if(u>J.y(z.a)-1)J.M(z.a,u+1)
J.K(z.a,u,s);++v}b.d=0
b.au(0)
if(!J.n(this.d,a.geV())){r=B.H(null,null,null)
r.a5(0)
r.Z(b,b)}
}
cE: function(a){
var z,y,x,w,v,u,t,s,r,q,p
z=J.E(this.d,0)?this.b2():this
y=z.a
x=a.a
w=z.c
if(typeof w!="number")return H.i(w)
v=2*w
a.c=v
for(;--v,v>=0;){if(v>J.y(x.a)-1)J.M(x.a,v+1)
J.K(x.a,v,0)}v=0
while(!0){w=z.c
if(typeof w!="number")return w.m()
if(!v<w-1))break
w=J.j(y.a,v)
u=2*v
w=z.b.$6(v,w,a,u,0,1)
w=z.c
if(typeof w!="number")return H.i(w)
w=v+w
s=J.j(x.a,w)
r=v+1
q=J.j(y.a,v)
if(typeof q!="number")return H.i(q)
p=z.c
if(typeof p!="number")return p.m()
p=J.p(s,z.b.$6(r,2*q,a.u+l,t,p-v-1))
if(w>J.y(x.a)-1)J.M(x.a,w+1)
J.K(x.a,w,p)
if(J.a9(p,$.aE))w=z.c
if(typeof w!="number")return H.i(w)
w=v+w
u=J.G(J.j(x.a,w),$.aE)
if(w>J.y(x.a)-1)J.M(x.a,w+1)
J.K(x.a,w,u)
w=z.c
if(typeof w!="number")return H.i(w)
w=v+w+1
if(w>J.y(x.a)-1)J.M(x.a,w+1)
J.K(x.a,w,1)}v=r}w=a.c
s=J.j(y.a,v)
x.k(0,w,J.p(u,z.b.$6(v,s,a,2*v,0,1)))a.d=0
a.au(0),
},
b1: function(a,b,a0){var z,y,x,w,v,u,t,s,q,p,o,n,m,l,k,j,i,h,g,f,e,d,c
z=J.fV(a)
y=z.gby()
if(typeof y!="number")return y.ae()
if(y<=0)return
x=J.E(this.d,0)?this.b2():this
y=x.c
w=z.c
if(typeof y!="number")return y.u()
if(typeof w!="number")return H.i(w)
if(y<w){if(b!=null)b.a5(0)
if(a0!=null)this.b0(0,a0)
return}if(a0==null)a0=B.H(null,null,null)
v=B.H(null,null,null)
u=this.d
t=a.geV()
s=z.a
y=$.Z
w=z.c
if(typeof w!="number")return w.m()
w=this.ew(J.j(s.a,w-1))
if(typeof y!="number")return y.m()
r=y-w
y>=0
if(y){z.d6(r,v)
x.d6(r,a0)}else{z.b0(0,v)
x.b0(0,a0)}q=v.c
p=v.a
if(typeof q!="number")return q.m()
o=J.j(p.a,q-1)
w=J.t(o)
if(w.q(o,0))return
n=$.er
if(typeof n!="number") return H.i(n)
n=w.v(o,C.b.X(1,n))
m=J.p(n,q>1?J.C(J.j(p.a,q-2),$..es):0)
w=$.ha
if(typeof w!="number") return w.cB()
if(typeof m!="number") return H.i(m)
l=w/m
w=$.er
if(typeof w!="number") return w.cB()
if(typeof m!="number") return H.i(m)
l=w/m
w=$.ha
if(typeof w!="number") return w.cB()
k=C.b.X(1,w)/m
w=$.es
if(typeof w!="number") return w.cB()
k=C.b.X(1,w)/m
w=$.ha
if(typeof w!="number") return w.cB()
k=C.b.X(1,w)/m
w=$.es
if(typeof w!="number") return w.cB()

if(J.a9(a0.S(0,g),0)){n=a0.c
if(typeof n!="number") return n.j()
a0.c=n+1
f.k(0,n,1)
a0.Z(g,a0) e=B.H(null,null,null)
e.a5(1)
e.cd(q,g)
g.Z(v,v)
while(!0){n=v.c
if(typeof n!="number") return n.u()
if(!n<q)) break
d=n+1
v.c=d
if(n>J.y(p.a)-1)J.M(p.a,d)
J.K(p.a,n,0))for(-h,h>=0;){--i
c=J.n(J.j(f.a,i),o)?$.ay:J.kN(J.p(J.j(f.a,i),J.aw(J.p(J.j(f.a,i-1),j),k)))
n=J.p(J.j(f.a,i),v,b.$6(0,c,a0,h,0,q))
if(i>J.y(f.a)-1)J.M(f.a,i+1)
J.K(f.a,i,n)
if(J.E(n,c)) {v.cd(h,g)
a0.Z(g,a0)
while(!0){n=J.j(f.a,i)
if(typeof c!="number") return c.m();--c
if(J.E(n,c)) break
a0.Z(g,a0))} if(!w) {a0.cY(q,b)
if(!J.n(u,1)) {e=B.H(null,null,null)
e.a5(0)
e.Z(b,b)) a0.c=q

Open Source Used in Edge and Fog Processing Module 1.6.0

686
```javascript
a0.au(0)
if(y)a0.aU(r,a0)
if(J.E(u,0)) {e=B.H(null,null,null)
e.a5(0)
e.Z(a0,a0)}},
d7: function(a) { var z, y, x
   z = B.H(null, null, null); (J.E(this.d, 0) ? this.b2() : this).b1(a, null, z)
   if(J.E(this.d, 0)) {y = B.H(null, null, null)
y.a5(0)
x = J.T(z, S(0, y), 0) } else x = !1
   if(x) a.Z(z, z)
   return z},
lb: function() { var z, y, x, w, v
   z = this.a
   y = this.c
   if(typeof y !== "number") return y.u()
   if(y<1) return 0
   x = J.j(z.a, 0)
   y = J.o(x)
   if(J.n(y/l(x, 1), 0)) return 0
   w = y.l(x, 3)
   v = J.aw(y/l(x, 15), w)
   if(typeof v !== "number") return H.i(v)
   w = J.c(J.aw(w, 2-v), 15)
   v = J.aw(y/l(x, 255), w)
   if(typeof v !== "number") return H.i(v)
   w = J.c(J.aw(w, 2-v), 255)
   v = J.aw(y/l(x, 65535), w)
   if(typeof v !== "number") return H.i(v)
   w = J.c(J.aw(w, 2-v), 65535)
   v = J.c(J.aw(y/l(x, 65535), w), 65535)
   if(typeof v !== "number") return H.i(v)
   w = J.c(J.aw(w, 2-v), $.aE)
   y = J.ci(y.v(x, w), $.aE)
   if(typeof y !== "number") return H.i(y)
   w = J.ci(J.aw(w, 2-y), $.aE)
   y = J.o(w)
   if(y.B(w, 0)) { y = $.aE
   if(typeof y !== "number") return y.m()
   if(typeof w !== "number") return H.i(w)
   y = w } else y = y.av(w)
   return y},
bN: [function(a) { var z, y
   z = this.a
   y = this.c
   if(typeof y !== "number") return y.B()
   return J.n(y>0?J.c(J.j(z.a, 0), 1):this.d, 0)}, "$0", "$d4", 0, 0, 0],
ec: function(a) { var z = B.H(null, null, null)
   this.b0(0, z)
   return z},
cj: function() { var z, y, x
```
z=this.a
if(J.E(this.d,0))\{y=this.c
if(y===1)\{return J.G(J.j(z.a,0),$.aE)
else if(y===0)\{return-1\}
else\{
y=this.c
if(y===1)\{return J.j(z.a,0)
else if(y===0)\{return 0\}
\}
y=J.j(z.a,1)
x=$.Z
if(typeof x!="number")\{return H.i(x)
return J.B(J.v(J.c(y,C.b.X(1,32-x)-1),$.Z),J.j(z.a,0))\},
fX:function(a)\{var z=$.Z
if(typeof z!="number")\{return H.i(z)
return C.b.b5(C.1.bJ(0.6931471805599453*z/Math.log(H.bt(a))))\},
ai:function()\{var z,y
z=this.a
if(J.E(this.d,0))\{return-1\}
else\{
y=this.c
if(typeof y!="number")\{return y.ae()
if(!(y<=0))\{y=y===1&&J.ch(J.j(z.a,0),0)
else\{y=!0
if(y)\{return 0
else\{return 1\}
\}\}
\}
\}
y=J.j(z.a,1)
x=$.Z
if(typeof x!="number")\{return H.i(x)
return J.B(J.v(J.c(y,C.b.X(1,32-x)-1),$.Z),J.j(z.a,0))\},
fX:function(a)\{var z,$.Z
if(typeof z!="number")\{return H.i(z)
return C.b.b5(C.1.bJ(0.6931471805599453*z/Math.log(H.bt(a))))\},
ai:function()\{var z,y
z=this.a
if(J.E(this.d,0))\{return-1\}
else\{
y=this.c
if(typeof y!="number")\{return y.ae()
if(!(y<=0))\{y=y===1&&J.ch(J.j(z.a,0),0)
else\{y=!0
if(y)\{return 0
else\{return 1\}
\}\}
\}
\}
y=J.j(z.a,1)
x=Math.pow(10,y)
w=B.H(null,null,null)
w.a5(x)
v=B.H(null,null,null)
u=B.H(null,null,null)
this.b1(w,v,u,t)
for(t="";v.ai()>0;){z=u.cj()
if(typeof z!="number")\{return H.i(z)
t=C.a.ac(C.b.aG(C.d.b5(x+z),10),1)+t
v.b1(w,v,u)\{return J.bV(u.cj(),10)+t\},
kX:function(a,b)\{var z,y,x,w,v,u,t,s,r,q,p
this.a5(0)
if(b===null)b=10
z=this.fX(b)
H.bt(b)
H.bt(z)
y=Math.pow(b,z)
x=J.D(a)
w=!1
v=0
u=0
t=0
while(!0){s=x.gi(a)
  if(typeof s!="number")return H.i(s)
  if(!t<s)break
  c$0:{r=$.bw.h(0,x.t(a,t))
    q=r==null?-1:r
    if(J.E(q,0)){if(0>=a.length)return H.a(a,0)
      if(a[0]=="-"&this.ai()===0)w=!0
        break c$0}
      if(typeof b!="number")return b.v()
      if(typeof q!="number")return H.i(q)
      u=b*u+q;++v
    }++t}
    if(v>z){this.h3(y)
      this.ee(u,0)
      v=0
      u=0}
    }if(v>0){H.bt(b)
      H.bt(v)
      this.h3(Math.pow(b,v))
    if(u!==0)this.ee(u,0)}if(w){p=B.H(null,null,null)
      p.a5(0)
      p.Z(this,this)}}
  cu:function(){var z,y,x,w,v,u,t,s,r,q
    z=this.a
    y=this.c
    x=H.f(new B.ia(H.f([[],[]]),[]),[])
    x.k(0,0,this.d)
    w=$.Z
    if(typeof y!="number")return y.v()
    if(typeof w!="number")return H.i(w)
    v=w-C.d.A(y*w,8)
    u=y-1
    if(y>0){if(v<w){t=J.C(J.j(z.a,u),v)
      w=!J.n(t,J.C(J.c(this.d,$.ay),v))}else{t=null
        w=!1}
      if(w){w=this.d
        s=$.Z
        if(typeof s!="number")return s.m()}
      x.k(0,0,J.B(t,J.v(w,v,s-v)))
    }else r=0
    for(y=u;y>=0;){if(v<8){t=J.v(J.c(J.j(z.a,y),C.b.X(1,v)-1),8-v);--y
      w=J.j(z,a,y)
      s=$.Z
      if(typeof s!="number")return s.m()}
    v+=s-8
    t=J.B(t,J.C(w,v))}else{v=8
    t=J.c(J.C(J.j(z.a,y),255)
    if(v<=0){w=$.Z
      if(typeof w!="number")return H.i(w)
      v+=w;--y}
    }w=J.o(t)
if(!J.n(w.l(t,128),0))t=w.cC(t,-256)
if(r===0&&!J.n(J.c(this.d,128),J.c(t,128)))++r
if(r>0||!J.n(t,this.d))
  q=r+1
  J.M(x.a,q)
  J.K(x.a,r,t)
  r=q
} return x.a,
e8:function(a,b,c){
  var z,y,x,w,v,u,t,s,r
  z=this.a
  y=a.gay()
  x=c.a
  w=P.dl(a.c,this.c)
  for(v=0;v<w;++v){
    u=b.$2(J.j(z.a,v),J.j(y.a,v))
    if(v>J.y(x.a)-1)J.M(x.a,v+1)
    J.K(x.a,v,u)
  }
}
e6:function(a){
  var z=B.H(null,null,null)
  this.e8(a,this.glE(),z)
  return z,
mL:[function(a,b){
    return J.c(a,b)
  },"$2","glE",4,0,3],
e7:function(a){
  var z=B.H(null,null,null)
  this.e8(a,this.glE(),z)
  return z,
mM:[function(a,b){
    return J.B(a,b)
  },"$2","glF",4,0,3],
mN:[function(a,b){
    return J.r(a,b)
  },"$2","glG",4,0,3],
lq:function(){
  var z,y,x,w,v,u
  z=this.a
  y=B.H(null,null,null)
  x=y.a
  w=0
  while(!0){
    v=this.c
    if(v===0)return H.i(v)
    if(!(v<u))break
    u=b.$2(r,J.j(y.a,v))
    if(v>J.y(x.a)-1)J.M(x.a,v+1)
    J.K(x.a,v,u)
  }
  u=a.c
  t=this.c
  if(typeof u!]))return u.u()
  if(typeof t!="number")return H.i(t)
  s=$.ay
  if(u<s){
    r=J.c(a.d,s)
    v=w
    while(!0){
      u=this.c
      if(typeof u!="number")return H.i(u)
      if(!(v<u))break
      u=b.$2(J.j(z.a,v),r)
      if(v>J.y(x.a)-1)J.M(x.a,v+1)
      J.K(x.a,v,u);++v}
  else{
    r=J.c(this.d,s)
    v=w
    while(!0){
      u=a.c
      if(typeof u!="number")return H.i(u)
      if(!(v<u))break
      u=b.$2(r,J.j(y.a,v))
      if(v>J.y(x.a)-1)J.M(x.a,v+1)
      J.K(x.a,v,u);++v}
  }
  return x.a,
e8:function(a,b,c){
  var z,y,x,w,v,u,t,s,r
  z=this.a
  y=a.gay()
  x=c.a
  w=P.dl(a.c,this.c)
  for(v=0;v<w;++v){
    u=b.$2(J.j(z.a,v),J.j(y.a,v))
    if(v>J.y(x.a)-1)J.M(x.a,v+1)
    J.K(x.a,v,u)
  }
  return x.a
}
v=$.ay
u=J.bS(J.j(z.a,w))
if(typeof v!="number")return v.l()
if(typeof u!="number")return H.i(u)
if(w>J.y(x.a)-1)J.M(x.a,w+1)
J.K(x.a,w,(v&u)>>>0);++w}y.c=v
y.d=J.bS(this.d)
return y},
dt:function(a){var z,y
z=B.H(null,null,null)
y=J.o(a)
if(y.u(a,0))this.d6(y.av(a),z)
else this.aU(a,z)
return z},
er:function(a){var z,y
z=J.t(a)
y=J.o(a)
if(z.q(a)==0)z=b0
if(J.n(z.l(a,65535),0))a=z.n(a,16)
y=16}z=J.o(a)
if(J.n(z.l(a,255),0))a=z.n(a,8)
y+=8}z=J.o(a)
if(J.n(z.l(a,15),0))a=z.n(a,4)
y+=4}z=J.o(a)
if(J.n(z.l(a,3),0))a=z.n(a,2)
y+=2}return J.n(J.c(a,1),0)?y+1:y},
hQ:function(){var z,y,x,w
z=this.a
y=0
while(!0){x=this.c
if(typeof x!="number")return H.i(x)
if(!(y<x))break
if(!J.n(J.j(z,a,y),0)){x=$.Z
if(typeof x!="number")return H.i(x)
y*x+this.er(J.j(z,a,y))}++y}if(J.E(this.d,0)){x=this.c
w=$.Z
if(typeof w!="number")return H.i(w)
return x*w}return-1},
ghg:function(){return this.hQ()},
bg:function(a){var z,y,x,w
z=this.a
y=$.Z
if(typeof y!="number")return H.i(y)
x=C.d.aB(a,y)
y=this.c
if(typeof y!="number")return H.i(y)
if(x>=y)return J.n(this.d,0)
y=J.j(z.a.x)
w=$.Z
if(typeof w!=="number")return H.i(w)
return!J.n(J.c(y,C.b.X(1,C.d.A(a,w))),0),
cU:function(a,b){var z,y,x,v,u,t,s,r
z=this.a
y=a.gay()
x=b.a
w=P.dl(a,c,th.i.c)
for(v=0,u=0;v<w;v++)
{t=J.p(J.j(z.a,v),J.j(y.a,v))
if(typeof t!="number")return H.i(t)
u+=t
s=v+1
t=$.ay
if(typeof t!="number")return H.i(t)
if(v>J.y(x.a)-1)J.M(x,a,s)
J.K(x,a,v,(u&t)>>0)
t=$.Z
if(typeof t!="number")return H.i(t)
u=C.d.a_=u,t)t=a.c
r=this.c
if(typeof t!="number")return t.u()
if(typeof t!="number")return H.i(t)
if(t<r){t=a.d
if(typeof t!="number")return H.i(t)
u+=t
while(!0){t=a.c
if(typeof t!="number")return H.i(t)
if(!(v<t))break
t=J.j(z.a,v)
if(typeof t!="number")return H.i(t)
u+=t
s=v+1
t=$.ay
if(typeof t!="number")return H.i(t)
if(v>J.y(x.a)-1)J.M(x,a,s)
J.K(x,a,v,(u&t)>>0)
t=$.Z
if(typeof t!="number")return H.i(t)
if(v<s)t=th.i.d
v=s}
t=th.i.d
if(typeof t!="number")return H.i(t)
u+=t}
else{t=th.i.d
if(typeof t!="number")return H.i(t)
u+=t
while(!0){t=a.c
if(typeof t!="number")return H.i(t)
if(!(v<t))break
t=J.j(y,a,v)
if(typeof t!="number")return H.i(t)

u+=t
s=v+1
t=$.ay
if(typeof t!="number")return H.i(t)
if(v>J.y(x.a)-1)J.M(x.a,s)
J.K(x.a,v,(u&t)>>0)
t=$.Z
if(typeof t!="number")return H.i(t)

u=C.d.a_(u,t)
v=s}t=a.d
if(typeof t!="number")return H.i(t)
u+=t}b.d=u<0?-1:0
if(v>0){v+=v+1
}
x.k(0,v,u)
v=s}else if(u<-1){s=v+1

K:function(a,b){var z=B.H(null,null,null)
this.cU(b,z)
return z},
eZ:function(a){var z=B.H(null,null,null)
this.Z(a,z)
return z},
h5:function(a){var z=B.H(null,null,null)
this.b1(a,z,null)
return z},
aV:function(a,b){var z=B.H(null,null,null)
this.b1(b,null,z)
return z.ai()>=0?z:z.K(0,b)},
h3:function(a){var z,y,x,w
z=this.a
y=this.c
x=this.b.$6(0,a-1,this,0,0,y)
w=J.y(z.a)
if(typeof y!="number")return y.B()
if(y>w-1)J.M(z.a,y+1)
J.K(z.a,y,x)
y=this.c
if(typeof y!="number")return y.j()
this.c=y+1
this.au(0),
ec:function(a,b){var z,y,x
z=this.a
while(!0){y=this.c
if(typeof y!="number")return y.ae()
if(!(y<b))break
x=y+1
this.c=x
if(y>J.y(z.a)-1)J.M(z.a,x)
J.K(z.a,y,0)}y=J.p(J.j(z.a,b),a)
if(b>J.y(z.a)-1)J.M(z.a,b+1)
J.K(z.a,b,y)
for(J.a9(J.j(z.a,b),$.aE){y=J.G(J.j(z.a,b),$.aE)
if(b>J.y(z.a)-1)J.M(z.a,b+1)
J.K(z.a,b,y);++b
y=this.c
if(typeof y!="number")return H.i(y)
if(b>y)}x=y+1
this.c=x
if(y>J.y(z.a)-1)J.M(z.a,x)
J.K(z.a,y,0)}y=J.p(J.j(z.a,b),1)
if(b>J.y(z.a)-1)J.M(z.a,b+1)
J.K(z.a,b,y)}},
lm:function(a,b,c){var z,y,x,w,v,u,t
z=c.a
y=a.a
x=this.c
w=a.c
if(typeof x!="number")return x.j()
if(typeof w!="number")return H.i(w)
v=P.dl(x+w,b)
c.d=0
c.c=v
for(;v>0;){--v
if(v>J.y(z.a)-1)J.M(z.a,v+1)
J.K(z.a,v,0)}x=c.c
w=this.c
w=this.b.$6(0,w,c,v,0,t)
if(x>J.y(z.a)-1)J.M(z.a,x+1)
J.K(z.a,x,t)}for(u=P.dl(a,c,b);v<u;++v){x=J.j(y.a,v)
this.b.$6(0,c,v,0,b-v)c.au(0)},
ln:function(a,b,c){var z,y,x,w,v,u
t=c.a
y=a.a--;b
x=this.c
w=a.c
if(typeof x!="number")return x.j()
if(typeof w!="number")return H.i(w)
v=x+w-b
c.c=v
c.d=0
for(;--v,v>=0;)if(v>J.y(z.a)-1)J.M(z.a,v+1)
J.K(z.a,v,0)x=this.c
if(typeof x!="number")return H.i(x)
v=P.ko(b-x,0)
while(!0){x=a.c
if(typeof x!="number")return H.i(x)
if(!(v<x))break
x=this.c
if(typeof x!="number")return x.j()
x=x+v-b
w=J.j(y.a,v)
u=this.c
if(typeof u!="number")return u.j()
u=this.b.$6(b-v,w,c,0,0,u+v-b)
if(x>J.y(z.a)-1)J.M(z.a,x+1)
J.K(z.a,x,u);++v;c.au(0)
c.cY(1,c}),
aL_.function(a,b,c){var z,y,x,w,v,u,t,s,r,q,p,o,n,m,l,k,j,i
z=b.gay()
y=b.aR(0)
x=B.H(null,null,null)
x.a5(1)
if(y<=0)return x
else if(y<18)w=1
else if(y<48)w=3
else if(y<144)w=4
else w=y<768?5:6
if(y<8)v=new B.lZ(c)
else if(J.l6(c)===!0){v=new B.lw(c,null,null,null)
u=B.H(null,null,null)
v.b=u}
v.c=B.H(null,null,null)
t=B.H(null,null,null)
t.a5(1)
s=c.gby()
if(typeof s!="number")return H.i(s)
t.cd(2*s,u)
v.d=u.h5(c) else{v=new B.pF(c,null,null,null,null)
u=c.lb()
v.b=u
v.c=J.c(u,32767)
v.d=J.C(u,15)
u=($.Z)
if(typeof u!="number")return u.m()
v.e=C.b.X(1,u-15)-1
u=c.c
if(typeof u!="number")return H.i(u)
v.f=2*u}
r=H.f(new H.a0(0,null,null,null,null,0),[null,null])
q=w-1
p=C.b.aQ(1,w)-1
r.k(0,1,v.a4(this))
if(w>1){o=B.H(null,null,null)
v.bl(r.h(0,1),o)
for(n=3;n<=p;){r.k(0,n,B.H(null,null,null))}
v.d9(o,r.h(0,n-2),r.h(0,n))
n+=2] }u=b.c
if(typeof u!="number")return u.m()
m=u-1
l=B.H(null,null,null)
y=this.ew(J.j(z.a,m))-1
for(k=!0,j=null;m>=0;){u=z.a
if(y>=q)i=J.c(J.C(J.j(u,m),y-q),p)
else{i=J.v(J.c(J.j(u,m),C.b.X(1,y+1)-1),q-y)
if(m>0){u=J.j(z.a,m-1)
s=($.Z)
if(typeof s!="number")return s.j()}
i=J.B(i,J.C(u,s+y-q)) }for(n=w;u=J.o(i),J.n(u.l(i,1),0);){i=u.n(i,1);--n}y-=n
if(y<0){u=($.Z)
if(typeof u!="number")return H.i(u)
y+=u;--m}if(k){J.kL(r.h(0,i),x)
k=!1}else{for(;n>1;){v.bl(x,l)
v.bl(l,x)
n-=2]if(n>0)v.bl(x,l)
else{j=x}
x=l
l=j] }v.d9(l,r.h(0,i),x)}while(!0){if(!m>=0&&J.n(J.c(J.j(z.a,m),C.b.X(1,y)),0))break}
v.bl(x,l);--y
if(y<0){u=($.Z)
if(typeof u!="number")return u.m()
y=u-1;--m}]
j=x
x=l
l=j] }return v.eF(x),
d8:function(a,b){var z,y,x,w,v,u,t,s,r,q,o
z=J.bu(b)
y=z.bN(b)
if(th.is.bN(0)&y.===!0||b.ai()==0){x=B.H(null,null,null)
x.a5(0)
return x}w=z.ec(b)
v=this.ec(0)
if(v.ai()<0)v=v.b2()
x=B.H(null,null,null)
x.a5(1)
u=B.H(null,null,null)
u.a5(0)
t=B.H(null,null,null)
t.a5(0)
s=B.H(null,null,null)
s.a5(1)
for(r=y===!0;w.ai()!==0;){for(;w.bN(0)===!0;){w.aU(1,w)
if(r){q=x.a
p=x.c
if(typeof p!="number")return p.B()
if(J.n(p>0?J.c(J.j(q,a,0),1):x.d,0)){q=u.a
p=u.c
if(typeof p!="number")return p.B()
o=!J.n(p>0?J.c(J.j(q,a,0),1):u.d,0)
p=o}else p=!0
if(p){x.cU(this,x)
u.Z(b,u)}x.aU(1,x)}else{q=u.a
p=u.c
if(typeof p!="number")return p.B()
if(!J.n(p>0?J.c(J.j(q,a,0),1):u.d,0))u.Z(b,u)}u.aU(1,u)}while(!0){q=v.a
p=v.c
if(typeof p!="number")return p.B()
if(!J.n(p>0?J.c(J.j(q,a,0),1):v.d,0))break
v.aU(1,v)
if(r){q=t.a
p=t.c
if(typeof p!="number")return p.B()
if(J.n(p>0?J.c(J.j(q,a,0),1):t.d,0)){q=s.a
p=s.c
if(typeof p!="number")return p.B()
o=!J.n(p>0?J.c(J.j(q,a,0),1):s.d,0)
p=o}else p=!0
if(p){t.cU(this,t)
s.Z(b,s)}t.aU(1,t)}else{q=s.a
p=s.c
if(typeof p!="number")return p.B()
if(J.n(p>0?J.c(J.j(q,a,0),1):s.d,0))s.Z(b,s)}s.aU(1,s)}if(J.a9(w.S(0,v),0)){w.Z(v,w)
if(r)x.Z(t,x)
u.Z(s,u)}else{v.Z(w,v)
if(r)t.Z(x,t)
s.Z(u,s)}x=B.H(null,null,null)
x.a5(1)
if(J.n(v.S(0,x),0))x=B.H(null,null,null)
x.a5(0)
return x}if(J.a9(s.S(0,b),0)) { r=s.eZ(b)
return this.ai()<s.m(b,r):r}if(s.ai()<0)s.cU(b,s)
else return this.ai()<0?s.m(b,s):s
if(s.ai()<0) { r=s.K(0,b)
return this.ai()<0?s.m(b,r):r}else return this.ai()<0?s.m(b,s):s},
j:function(a,b){return this.K(0,b)},
m:function(a,b){return this.eZ(b)},
v:function(a,b){ var z=B.H(null,null,null)
this.da(b,z)
return z},
A:function(a,b){return this.aV(0,b)},
aB:function(a,b){return this.h5(b)},
av:function(a){return this.b2()},
u:function(a,b){return J.E(this.S(0,b),0)&&!0},
ae:function(a,b){return J.ch(this.S(0,b),0)&&!0},
B:function(a,b){return this.aV(0,b)},
aB:function(a,b){return this.h5(b)},
av:function(a){return this.b2()},
u:function(a,b){return J.E(this.S(0,b),0)&&!0},
ae:function(a,b){return J.ch(this.S(0,b),0)&&!0},
B:function(a,b){return this.aV(0,b)},
aB:function(a,b){return this.h5(b)},
av:function(a){return this.b2()},
u:function(a,b){return J.E(this.S(0,b),0)&&!0},
ae:function(a,b){return J.ch(this.S(0,b),0)&&!0},
B:function(a,b){return this.aV(0,b)},
aB:function(a,b){return this.h5(b)},
av:function(a){return this.b2()},
u:function(a,b){return J.E(this.S(0,b),0)&&!0},
ae:function(a,b){return J.ch(this.S(0,b),0)&&!0},
B:function(a,b){return this.aV(0,b)},
aB:function(a,b){return this.h5(b)},
av:function(a){return this.b2()},
u:function(a,b){return J.E(this.S(0,b),0&&$!0)},
l:function(a,b){return this.e6(b)},
cC:function(a,b){ var z=B.H(null,null,null)
this.e8(b,this.glF(),z)
return z},
at:function(a,b){ var z=B.H(null,null,null)
this.e8(b,this.glG(),z)
return z},
ar:function(a){return this.lq()},
X:function(a,b){ var z,y
z=B.H(null,null,null)
y=J.o(b)
if(y.u(b,0))this.aU(y.av(b),z)
else this.d6(b,z)
return z},
n:function(a,b){return this.dt(b)},
iy:function(a,b,c){B.lE(28)
this.b=this.giU()
this.a=H.f(new B.ia(H.f([],[P.q]),[P.q]),[P.q])
if(a!=null)if(typeof a==="number"&&Math.floor(a)===a)this.bK(C.b.p(a),10)
else if(typeof a==="number")this.bK(C.b.p(C.d.b5(a)),10)
else if(b==null&&typeof a==="string")this.bK(a,256)
else this.bK(a,b),
$isds:1,
C:
H:function(a,b,c){ var z=new B.JC(null,null,null,null,0)
z.iy(a,b,c)
return z},
lE:function(a){ var z,y
if($.bw!=null)return
```javascript
z = this.a.h(0, a)
if (z !== null) return z.$1(a)
else for (y = this.b, x = 0; x < a.length; x++) {
  if (x === y) return H.a(y, x)
  w = y[x].$1(a)
  if (w !== null) return w}
throw H.b(new P.w("No algorithm with that name registered: "+a))}
km7: function(a) {
  var z, y, x, w
  z = $.get$fu()
y = J.o(a)
x = y.l(a, 255)
if (x >>> 0 !== x || x >= z.length) return H.a(z, x)
x = J.c(z[x], 255)
w = J.c(y.n(a, 8), 255)
if (w >>> 0 !== w || w >= z.length) return H.a(z, w)
w = J.B(x, J.v(J.c(z[w], 255), 8))
x = J.c(y.n(a, 16), 255)
if (x >>> 0 !== x || x >= z.length) return H.a(z, x)
x = J.B(w, J.v(J.c(z[x], 255), 16))
y = J.c(y.n(a, 24), 255)
if (y >>> 0 !== y || y >= z.length) return H.a(z, y)
return J.B(x, J.v(y, 24))
}
ls: {"^": "lx;a,b,c,d,e,f,r"}
d2: function(a, b) {
  var z, y, x, w, v, u, t, s, r, q, p, o
  y = b.a
  z = y.byteLength
  if (typeof y !== "number") return y.cB()
x = C.l.bJ(y/4)
  if (x !== 4 && x >>> 0 !== 4) throw H.b(P.N("Key length must be 128/192/256 bits"))
  a += 1
  y = x + 6
  this.c = y
  this.b = P.i(y + 1, new S.lt(), 0, null)
y = z.buffer
y.toString
w = H.aU(y, 0, null)
v = 0
u = 0
while (!0) {
  y = z.byteLength
  if (typeof y !== "number") return H.i(y)
  if (!v) break
  t = w.getUint32(v, 0)
y = this.b
  s = u >>> 2
  if (s >= y.length) return H.a(y, s)
  J.K(y[s].u & 3, t)
v += 4; ++u}
y = this.c
  if (typeof y !== "number") return y.j()
r = y + 1 << 2
  if (r >>> 0) {
    for (y = x > 6, v = x; v < a.length; v++) {
      s = this.b
````
q=v-1
p=C.b.a_(q,2)
if(p>=s.length) return H.a(s,p)
o=J.Q(J.j(s[p],q&3))
s=C.b.A(v,x)
if(s===0) {s=S.k7((C.b.a_(o,8)|(o&$.S$.get$S$dd()&24))&<24&4294967295)>>0)
q=$.S$.get$Y$(v)
p=C.l.bJ(v/x-1)
if(p<0||p>=30) return H.a(q,p)
o=J.r(s,q[p]) else if(y&&s===4) o=S.k7(o)
s=this.b
q=v-x
p=C.b.a_(q,2)
if(p>=s.length) return H.a(s,p)
t=J.r(J.j(s[p],q&3),o)
q=0
p=C.b.a_(v,2)
if(p>q.length) return H.a(q,p)
}]
IN:function(a,b,c,d){ var z,y,x,w,v,u,t,s,r,q,p,o,n
z=this.d
if(0>=a.length) return H.a(a,0)
this.d=J.r(z,J.Q(J.j(a[0],0)))
z=this.e
if(0>=a.length) return H.a(a,0)
this.e=J.r(z,J.Q(J.j(a[0],1)))
z=this.f
if(0>=a.length) return H.a(a,0)
this.f=J.r(z,J.Q(J.j(a[0],2)))
```javascript
z = this.r
if(0 >= a.length) return H.a(a,0)
this.r = J.r(z, J.Q(J.j(a[0], 3)))
y = 1
while(0 > 0) { z = this.c
  if(typeof z !== "number") return z.m()
  if(!y < z - 1) break
  z = S.$get$fw()
x = J.c(this.d, 255)
  if(x >>> 0 !== x || x >= 256) return H.a(z, x)
x = z[x]
w = S.$get$fz()
v = J.c(J.C(this.e, 8), 255)
  if(v >>> 0 !== v || v >= 256) return H.a(w, v)
v = w[v]
u = S.$get$fy()
t = J.c(J.C(this.f, 16), 255)
  if(t >>> 0 !== t || t >= 256) return H.a(u, t)
t = u[t]
s = S.$get$fz()
r = J.c(J.C(this.r, 24), 255)
  if(r >>> 0 !== r || r >= 256) return H.a(s, r)
r = s[r]
y = a.length
  return H.a(a, y)
q = x ^ v ^ t ^ r ^ J.Q(J.j(a[y], 0))
r = J.c(this.e, 255)
  if(r >>> 0 !== r || r >= 256) return H.a(r, r)
r = r[r]
t = J.c(J.C(this.f, 8), 255)
  if(t >>> 0 !== t || t >= 256) return H.a(t, t)
t = w[t]
v = J.c(J.C(this.r, 16), 255)
  if(v >>> 0 !== v || v >= 256) return H.a(v, v)
v = u[v]
x = J.c(J.C(this.d, 24), 255)
  if(x >>> 0 !== x || x >= 256) return H.a(s, x)
x = s[x]
y = a.length
  return H.a(a, y)
p = r ^ t ^ v ^ x ^ J.Q(J.j(a[y], 1))
x = J.c(this.f, 255)
  if(x >>> 0 !== x || x >= 256) return H.a(z, x)
x = z[x]
v = J.c(J.C(this.r, 8), 255)
  if(v >>> 0 !== v || v >= 256) return H.a(w, v)
v = w[v]
t = J.c(J.C(this.d, 16), 255)
  if(t >>> 0 !== t || t >= 256) return H.a(u, t)
t = u[t]
```

---

**Open Source Used In Edge and Fog Processing Module 1.6.0**

---

Page 702
r=J.c(J.C(this.e,24),255)
if(r>>>0!==r||r>=256)return H.a(s,r)
r=s[r]
if(y>=a.length)return H.a(a,y)
o=x^n^v^n^r^n^J.Q(J.j(a[y],2))
r=J.c(this.r,255)
if(r>>>0!==r||r>=256)return H.a(z,r)
r=z[r]
t=J.c(J.C(this.d,8),255)
if(t>>>0!==t||t>=256)return H.a(w,t)
t=w[t]
v=J.c(J.C(this.e,16),255)
if(v>>>0!==v||v>=256)return H.a(u,v)
v=u[v]
x=J.c(J.C(this.f,24),255)
if(x>>>0!==x||x>=256)return H.a(s,x)
x=s[x]
if(y>=a.length)return H.a(a,y)
n=r^n^v^n^x^n^J.Q(J.j(a[y],3));++y
x=z[q&255]
v=w[p>>>8&255]
t=u[o>>>16&255]
r=s[n>>>24&255]
if(y>=a.length)return H.a(a,y)
this.d=(x^n^v^n^r^n^J.Q(J.j(a[y],0)))>>>0
r=z[p&255]
t=w[o>>>8&255]
v=u[n>>>16&255]
x=s[q>>>24&255]
if(y>=a.length)return H.a(a,y)
this.e=(r^n^v^n^x^n^J.Q(J.j(a[y],1)))>>>0
x=z[o&255]
v=w[n>>>8&255]
t=u[q>>>16&255]
r=s[p>>>24&255]
if(y>=a.length)return H.a(a,y)
this.f=(x^n^v^n^r^n^J.Q(J.j(a[y],2)))>>>0
z=z[n&255]
w=w[q>>>8&255]
u=u[p>>>16&255]
s=s[o>>>24&255]
if(y>=a.length)return H.a(a,y)
this.r=(z^n^w^n^u^n^s^n^J.Q(J.j(a[y],3)))>>>0;++y}z=$.$get$fw()
if(v>>>0!==v|v>=256)return H.a(w,v)
v=w[v]
u=$.$get$fy()
t=J.c(J.C(this.f,16),255)
if(t>>>0!==t|t>=255)return H.a(u,t)
t=u[t]
s=$.$get$fz()
r=J.c(J.C(this.r,24),255)
if(r>>>0!==r|r>=256)return H.a(s,r)
r=s[r]
y=a.length)
q=x^v^t^r^J.Q(J.j[a[y],0])
r=J.c(this.e,255)
if(r>>>0!==r|r>=256)return H.a(u,t)
t=w[t]
v=J.c(J.C(this.r,16),255)
if(v>>>0!==v|v>=256)return H.a(u,v)
v=u[v]
x=J.c(J.C(this.d,24),255)
if(x>>>0!==x|x>=256)return H.a(s,x)
x=s[x]
y=a.length)
p=r^t^v^x^J.Q(J.j[a[y],1])
x=J.c(this.f,255)
if(x>>>0!==x|x>=256)return H.a(u,v)
v=J.c(J.C(this.r,8),255)
if(v>>>0!==v|v>=256)return H.a(w,v)
v=w[v]
t=J.c(J.C(this.d,16),255)
if(t>>>0!==t|t>=256)return H.a(u,t)
t=u[t]
r=J.c(J.C(this.e,24),255)
if(r>>>0!==r|r>=256)return H.a(s,r)
r=s[r]
y=a.length)
o=x^v^t^r^J.Q(J.j[a[y],2])
r=J.c(this.r,255)
if(r>>>0!==r|r>=256)return H.a(z,r)
r=z[r]
z=J.c(J.C(this.d,8),255)
if(z>>>0!==z|z>=256)return H.a(w,z)
z=w[z]
w=J.c(J.C(this.e,16),255)
if(w>>>0!==w|w>=256)return H.a(u,w)
w=u[w]
u=J.c(J.C(this.f,24),255)
if(u>>>0!==u||u>=256)return H.a(s,u)
u=s[u]
if(y>=a.length)return H.a(a,y)
n=r^w^u^J.Q(J.j(a[y],3));++y
u=$.$get$fu()
w=q&255
if(w>=u.length)return H.a(u,w)
w=J.c(u[w],255)
z=p>>>&255
if(z>=u.length)return H.a(u,z)
z=J.r(w,J.v(J.c(u[z],255),8))
w=o>>>16&255
if(w>=u.length)return H.a(u,w)
w=J.r(z,J.v(J.c(u[w],255),16))
z=n>>>24&255
if(z>=u.length)return H.a(u,z)
z=J.r(w,J.v(u[z],24))
if(y>=a.length)return H.a(a,y)
this.d=J.r(z,J.Q(J.j(a[y],0)))
z=p&255
if(z>=u.length)return H.a(u,z)
z=J.c(u[z],255)
w=o>>>8&255
if(w>=u.length)return H.a(u,w)
w=J.r(z,J.v(J.c(u[w],255),8))
z=n>>>16&255
if(z>=u.length)return H.a(u,z)
z=J.r(w,J.v(u[z],24))
if(y>=a.length)return H.a(a,y)
this.e=J.r(w,J.Q(J.j(a[y],1)))
w=o&255
if(w>=u.length)return H.a(u,w)
w=J.c(u[w],255)
z=n>>>&255
if(z>=u.length)return H.a(u,z)
z=J.r(w,J.v(J.c(u[z],255),8))
w=q>>>16&255
if(w>=u.length)return H.a(u,w)
w=J.r(z,J.v(J.c(u[w],255),16))
z=p>>>24&255
if(z>=u.length)return H.a(u,z)
z=J.r(w,J.v(u[z],24))
if(y>=a.length)return H.a(a,y)
this.f=J.r(z,J.Q(J.j(a[y],2)))
z=n&255
if(z>=u.length)return H.a(u,z)
z=J.c(u[z],255)
w=q>>>8&255
if(w>=u.length)return H.a(u,w)
w=J.r(z,J.v(J.c(u[w],255),8))
z=p>>>16&255
if(z>=u.length)return H.a(u,z)
z=J.r(w,J.v(J.c(u[z],255),16))
w=o>>>24&255
if(w>=u.length)return H.a(u,w)
w=J.r(z,J.v(u[w],24))
if(y>=a.length)return H.a(a,y)
this.r=J.r(w,J.Q(J.j(a[y],3)))
}
j5:function(a){var z,y,x,w,v,u,t,s,r,q,p,o,n
z=this.d
y=this.c
if(y>>>0!==y||y>=a.length)return H.a(a,y)
this.d=J.r(z,J.Q(J.j(a[y],0)))
y=this.e
z=this.c
if(z>>>0!==z||z>=a.length)return H.a(a,z)
this.e=J.r(y,J.Q(J.j(a[z],1)))
z=this.f
y=this.c
if(y>>>0!==y||y>=a.length)return H.a(a,y)
this.f=J.r(z,J.Q(J.j(a[y],2)))
y=this.r
z=this.c
if(z>>>0!==z||z>=a.length)return H.a(a,z)
this.r=J.r(y,J.Q(J.j(a[z],3)))
z=this.c
if(typeof z!="number")return z.m()
x=z-1
for(;x>1;){z=$.$get$fA()
y=J.c(this.d,255)
if(y>>>0!==y||y>=256)return H.a(z,y)
y=z[y]
w=$.$get$fB()
v=J.c(J.C(this.r,8),255)
if(v>>>0!==v||v>=256)return H.a(w,v)
v=w[v]
u=$.$get$fC()
t=J.c(J.C(this.f,16),255)
if(t>>>0!==t||t>=256)return H.a(u,t)
t=u[t]
s=$.$get$fD()
r=J.c(J.C(this.e,24),255)
if(r>>>0!==r||r>=256)return H.a(s,r)
r=s[r]
if(x>=a.length)return H.a(a,x)
q=y^v^t^r^J.Q(J.j(a[x],0))
r=J.c(this.e,255)
if(r>>>0!==r||r>=256)return H.a(z,r)
r=z[r]
t=J.c(J.C(this.d,8),255)
if(t>>>0!==t||t>=256)return H.a(w,t)
t=w[t]

v=J.c(J.C(this.r,16),255)
if(v>>>0!==v||v>=256)return H.a(u,v)
v=u[v]
y=J.c(J.C(this.f,24),255)
if(y>>>0!==y||y>=256)return H.a(s,y)
y=s[y]
if(x>=a.length)return H.a(a,x)

n=r^t^v^y^J.Q(J.j(a[x],3))--x
y=z[q&255]
v=w[n>>>8&255]  
t=u[o>>>16&255]  
r=s[p>>>24&255]  
if(x>=a.length)return H.a(a,x)  
this.d=(y^v^t^r^J.Q(J.j(a[x],0)))>>>0  
r=z[p&255]  
t=w[q>>>8&255]  
v=u[n>>>16&255]  
y=s[o>>>24&255]  
if(x>=a.length)return H.a(a,x)  
this.e=(r^t^v^y^J.Q(J.j(a[x],1)))>>>0  
y=z[o&255]  
v=w[p>>>8&255]  
t=u[q>>>16&255]  
r=s[n>>>24&255]  
if(x>=a.length)return H.a(a,x)  
this.f=(y^v^t^r^J.Q(J.j(a[x],2)))>>>0  
z=z[n&255]  
w=w[o>>>8&255]  
u=u[p>>>16&255]  
s=s[q>>>24&255]  
if(x>=a.length)return H.a(a,x)  
this.r=(z^w^u^s^J.Q(J.j(a[x],3)))>>>0;--x}z=$.$get$fA()  
y=J.c(this.d,255)  
if(y>>>0!==y||y>=256)return H.a(z,y)  
y=z[y]  
w=$.$get$fB()  
v=J.c(J.C(this.r,8),255)  
if(v>>>0!==v||v>=256)return H.a(w,v)  
v=w[v]  
u=$.$get$fC()  
t=J.c(J.C(this.f,16),255)  
if(t>>>0!==t||t>=256)return H.a(u,t)  
t=u[t]  
s=$.$get$fD()  
r=J.c(J.C(this.e,24),255)  
if(r>>>0!==r||r>=256)return H.a(s,r)  
r=s[r]  
if(x<0||x>=a.length)return H.a(a,x)  
q=y^v^t^r^J.Q(J.j(a[x],0))  
r=J.c(this.e,255)  
if(r>>>0!==r||r>=256)return H.a(s,r)  
r=s[r]  
t=J.c(J.C(this.d,8),255)  
if(t>>>0!==t||t>=256)return H.a(w,t)  
t=w[t]  
v=J.c(J.C(this.r,16),255)  
if(v>>>0!==v||v>=256)return H.a(u,v)
v = u[v]
y = J.c(J.C(this.f,24),255)
if(y>>>0!==y||y>=256)return H.a(s,y)
y = s[y]
if(x>=a.length)return H.a(a,x)
p = r*v^v^y^J.Q(J.j(a[x],1))
y = J.c(this.f,255)
if(y>>>0!==y||y>=256)return H.a(z,y)
y = z[y]
v = J.c(J.C(this.e,8),255)
if(v>>>0!==v||v>=256)return H.a(w,v)
v = w[v]
t = J.c(J.C(this.d,16),255)
if(t>>>0!==t||t>=256)return H.a(u,t)
t = u[t]
r = J.c(J.C(this.r,24),255)
if(r>>>0!==r||r>=256)return H.a(s,r)
r = s[r]
if(x>=a.length)return H.a(a,x)
o = y^v^v^v^J.Q(J.j(a[x],2))
r = J.c(this.r,255)
if(r>>>0!==r||r>=256)return H.a(z,r)
r = z[r]
z = J.c(J.C(this.f,8),255)
if(z>>>0!==z||z>=256)return H.a(w,z)
z = w[z]
w = J.c(J.C(this.e,16),255)
if(w>>>0!==w||w>=256)return H.a(u,w)
w = u[w]
u = J.c(J.C(this.d,24),255)
if(u>>>0!==u||u>=256)return H.a(s,u)
u = s[u]
if(x>=a.length)return H.a(a,x)
n = r^z^w^u^J.Q(J.j(a[x],3))
u = $.$.get$jH()
w = q&255
if(w>>>0!==u.length)return H.a(u,w)
w = J.c(u[w],255)
z = u>>>8&255
if(z>>>0!==u.length)return H.a(u,z)
z = J.r(w,J.v(J.c(u[z],255),8))
w = o>>>16&255
if(w>>>0!==u.length)return H.a(u,w)
w = J.r(z,J.v(J.c(u[w],255),16))
z = p>>>24&255
if(z>>>0!==u.length)return H.a(u,z)
z = J.r(w,J.v(u[z],24))
if(0>>>0!==a.length)return H.a(a,0)
this.d = J.r(z, J.Q(J.j(a[0], 0)))
z = p & 255
if(z >= u.length) return H.a(u, z)
z = J.c(u[z], 255)
w = q >>> 8 & 255
if(w >= u.length) return H.a(u, w)
w = J.r(z, J.v(J.c(u[w], 255), 8))
z = n >>> 16 & 255
if(z >= u.length) return H.a(u, z)
z = J.r(w, J.v(J.c(u[z], 255), 16))
w = o >>> 24 & 255
if(w >= u.length) return H.a(u, w)
w = J.r(z, J.v(u[w], 24))
if(0 >= a.length) return H.a(a, 0)
this.e = J.r(w, J.Q(J.j(a[0], 1)))
w = o & 255
if(w >= u.length) return H.a(u, w)
w = J.c(u[w], 255)
z = p >>> 8 & 255
if(z >= u.length) return H.a(u, z)
z = J.r(w, J.v(J.c(u[z], 255), 8))
w = q >>> 16 & 255
if(w >= u.length) return H.a(u, w)
w = J.r(z, J.v(J.c(u[w], 255), 16))
z = n >>> 24 & 255
if(z >= u.length) return H.a(u, z)
z = J.r(w, J.v(u[z], 24))
if(0 >= a.length) return H.a(a, 0)
this.f = J.r(z, J.Q(J.j(a[0], 2)))
z = n & 255
if(z >= u.length) return H.a(u, z)
z = J.c(u[z], 255)
w = o >>> 8 & 255
if(w >= u.length) return H.a(u, w)
w = J.r(z, J.v(J.c(u[w], 255), 8))
z = p >>> 16 & 255
if(z >= u.length) return H.a(u, z)
z = J.r(w, J.v(J.c(u[z], 255), 16))
w = q >>> 24 & 255
if(w >= u.length) return H.a(u, w)
w = J.r(z, J.v(u[w], 24))
if(0 >= a.length) return H.a(a, 0)
this.r = J.r(w, J.Q(J.j(a[0], 3))))
FJ: function(a, b) { this.d = R.el(a, b, C.f)
this.e = R.el(a, b+4, C.f)
this.f = R.el(a, b+8, C.f)
this.r = R.el(a, b+12, C.f) },
fn: function(a, b) { R.ei(this.d, a, b, C.f) }
R.ei(this.e,a,b+4,C.f)
R.ei(this.f,a,b+8,C.f)
R.ei(this.r,a,b+12,C.f)}},
lt:{"^":"m:26;",
$1:function(a){var z=new Array(4)
z.fixed$length=Array
return H.f(z,[P.q])}}}],["","",,U,{"^":"",lx:{"^":"d;"}}],["","",,U,{"^":"",lz:{"^":"d;",
ez:function(a){var z,y,x,w,v,u,t,s,r
z=J.y(a)
y=this.jP(a,0,z)
x=z-y
w=this.jQ(a,y,x)
this.jN(a,y+w,x-w)
z=this.z
v=new Uint8Array(H.a6(z))
u=new R.d5(null,null)
u.c2(0,this.a,null)
t=R.kv(u.a,3)
u.a=t
u.a=J.B(t,J.C(u.b,29))
u.b=R.kv(u.b,3)
this.jO()
t=this.x
if(typeof t!=="number")return t.B()
if(t>14)this.fc()
t=this.d
switch(t){case C.f:t=this.r
s=u.b
r=t.length
if(14>=r)return H.a(t,14)
t[14]=s
s=u.a
if(15>=r)return H.a(t,15)
t[15]=s
break
case C.j:t=this.r
s=u.a
r=t.length
if(14>=r)return H.a(t,14)
t[14]=s
s=u.b
if(15>=r)return H.a(t,15)
t[15]=s
break
default:H.x(new P.I("Invalid endianness: "+t.p(0)))}this.fc()
this.jK(v,0)
this.hs(0)
return C.h.U(v,0,z)}}}],["","",,R,{"^":"",pA:{"^":"lz;",

Open Source Used In Edge and Fog Processing Module 1.6.0
711


hs:function(a){var z,y
this.a.i9(0,0)
this.c=0
C.h.ak(this.b,0,4,0)
this.x=0
z=this.r
C.c.ak(z,0,z.length,0)
z=this.f
y=z.length
if(0>y)return H.a(z,0)
z[0]=1779033703
if(1>y)return H.a(z,1)
z[1]=3144134277
if(2>y)return H.a(z,2)
z[2]=1013904242
if(3>y)return H.a(z,3)
z[3]=2773480762
if(4>y)return H.a(z,4)
z[4]=1359893119
if(5>y)return H.a(z,5)
z[5]=2600822924
if(6>y)return H.a(z,6)
z[6]=528734635
if(7>y)return H.a(z,7)
z[7]=1541459225),
m7:function(a){var z,y,x
z=this.b
y=this.c
if(typeof y!="number")return y.j()
x=y+1
this.c=x
if(y>=4)return H.a(z,y)
z[y]=a&255
if(x===4){y=this.r
x=this.x
z=z.buffer
z.toString
H.au(z,0,null)
a=new DataView(z,0)
z=a.getUint32(0,C.f===this.d)
if(x>y.length)return H.a(y,x)
y[x]=z
if(this.x===16){this.bV() this.x=0
C.c.ak(y,0,16,0)\this.c=0\this.a.c3(1),
fc:function(){this.bV()}
this.x=0
C.c.ak(this.r,0,16,0}),
jN:function(a,b,c){var z,y,x,w,v,u,t,s,r
for(z=this.a,y=J.D(a),x=this.b,w=this.r,v=this.d;c>0;){u=y.h(a,b)
t=this.c
if(typeof t!="number")return t.j()
s=t+1
this.c=s
if(t>=4)return H.a(x,t)
x[t]=u&255
if(s===4){u=this.x
if(typeof u!="number")return u.j()
this.x=u+1
t=x.buffer
H.au(t,0,null)
}return t.toString
r=new DataView(t,0)
t=r.getUint32(0,C.f===v)
if(u>=w.length)return H.a(w,u)
w[u]=t
if(this.x===16){this.bV()
this.x=0
C.c.ak(w,0,16,0)}this.c3(1);++b;--c},
jQ:function(a,b,c){var z,y,x,w,v,u,t,s
for(z=this.a,y=this.r,x=this.d,w=J.L(a),v=0;c>4;){u=this.x
if(typeof u!="number")return u.j()
t=w.ge9(a)
t.toString
H.au(t,0,null)
s=new DataView(t,0)
t=s.getUint32(b,C.f===x)
if(u>=y.length)return H.a(y,u)
y[u]=t
if(this.x===16){this.bV()
this.x=0
C.c.ak(y,0,16,0)}b+=4
c+=4
z.c3(4)
v+=4}return v},
jp:function(a,b,c){var z,y,x,w,v,u,t,s,r,q
z=this.a
y=J.D(a)
x=this.b
w=this.r
v=this.d
u=0
while(!0){if(!(this.c!==0&&c>0))break
t=y.h(a,b)
s=this.c
if(typeof s!="number")return s.j()
r=s+1
this.c=r
if(s>=4)return H.a(x,s)
x[s]=t&255
if(r===4){t=this.x
if(typeof t!="number")return t.j()
this.x=t+1
s=x.buffer
s.toString
H.au(s,0,null)
q=new DataView(s,0)
s=q.getInt32(0,C.f===v)
if(t>=w.length)return H.a(w,t)
w[t]=s
if(this.x===16){this.bV()}
this.x=0
C.c.ac(w,0,16,0){this.c=0}c3(1);++b;++--c;++u}
if(v>=4)return H.a(y,v)
y[v]=0
if(u===4){v=this.x
if(typeof v!="number")return v.j()
this.x=v+1
u=y.buffer
u.toString
H.au(u,0,null)
t=new DataView(u,0)
u=t.getInt32(0,C.f===w)
if(v>=x.length)return H.a(x,v)
x[v]=u
if(this.x===16){this.bV()}
this.x=0
C.c.ac(x,0,16,0){this.c=0}c3(1)),
jK:function(a,b){var z,y,x,w,v,u,t,s
for(z=this.e,y=this.f,x=y.length,w=this.d,v=0;v<z;++v){if(v>=x)return H.a(x,v)
x[v]=u
if(this.x===16){this.bV()}
this.x=0
C.c.ac(x,0,16,0){this.c=0}c3(1))},
jO:function(){var z,y,x,w,v,u,t,s
for(z=this.e,y=this.f,x=y.length,w=this.d,v=0;v<z;++v){if(v>=x)return H.a(x,v)
x[v]=u
if(u===4){v=this.x
if(typeof v!="number")return v.j()
this.x=v+1
u=y.buffer
u.toString
H.au(u,0,null)
t=new DataView(u,0)
u=t.getInt32(0,C.f===w)
if(v>=x.length)return H.a(x,v)
x[v]=u
if(this.x===16){this.bV()}
this.x=0
C.c.ac(x,0,16,0){this.c=0}c3(1)),
jK:function(a,b){var z,y,x,w,v,u,t,s
for(z=this.e,y=this.f,x=y.length,w=this.d,v=0;v<z;++v){if(v>=x)return H.a(x,v)
x[v]=u
if(u===4){v=this.x
if(typeof v!="number")return v.j()
this.x=v+1
u=y.buffer
u.toString
H.au(u,0,null)
t=new DataView(u,0)
u=t.getInt32(0,C.f===w)
if(v>=x.length)return H.a(x,v)
x[v]=u
if(this.x===16){this.bV()}
this.x=0
C.c.ac(x,0,16,0){this.c=0}c3(1)),
jO:function(){var z,y,x,w,v,u,t,s
for(z=this.e,y=this.f,x=y.length,w=this.d,v=0;v<z;++v){if(v>=x)return H.a(x,v)
x[v]=u
if(u===4){v=this.x
if(typeof v!="number")return v.j()
this.x=v+1
u=y.buffer
u.toString
H.au(u,0,null)
t=new DataView(u,0)
u=t.getInt32(0,C.f===w)
if(v>=x.length)return H.a(x,v)
x[v]=u
if(this.x===16){this.bV()}
this.x=0
C.c.ac(x,0,16,0){this.c=0}c3(1)),
jK:function(a,b){var z,y,x,w,v,u,t,s
for(z=this.e,y=this.f,x=y.length,w=this.d,v=0;v<z;++v){if(v>=x)return H.a(x,v)
x[v]=u
if(u===4){v=this.x
if(typeof v!="number")return v.j()
this.x=v+1
u=y.buffer
u.toString
H.au(u,0,null)
t=new DataView(u,0)
u=t.getInt32(0,C.f===w)
if(v>=x.length)return H.a(x,v)
x[v]=u
if(this.x===16){this.bV()}
this.x=0
C.c.ac(x,0,16,0){this.c=0}c3(1)),
}
dz: function(a, b, c, d) {
    this.hs(0); }
}
]
function() {
    var z, y, x, w, u, t, r, q, p, o, n, m, l, k, j, i, h, g, f, e
}
for(z this.r, y = z.length, x = 16; x < 64; ++x) { w = x - 2
if(w > y) return H.a(z, w)
    w = z[w]
    v = J.o(w)
    u = v.n(w, 17)
    t = $.getSdd()
    w = J.r(J.r(J.B(u, J.c(J.v(v.l(w, t[15]), 15), 4294967295)), J.B(v.n(w, 19), J.c(J.v(v.l(w, t[13]), 13), 4294967295))), v.n(w, 10))

    v = x - 7
    if(v > y) return H.a(z, v)
    v = J.p(w, z[v])
    w = x - 15
    if(w > y) return H.a(z, w)
    w = z[w]
    u = J.o(w)
    w = J.r(J.r(J.B(u, J.c(J.v(v.l(w, t[15]), 15), 4294967295)), J.B(v.n(w, 19), J.c(J.v(v.l(w, t[13]), 13), 4294967295))), v.n(w, 10))

    u = J.p(w, z[v])
    v = J.o(w)
    w = J.r(J.r(J.B(u, J.c(J.v(v.l(w, t[15]), 15), 4294967295)), J.B(v.n(w, 19), J.c(J.v(v.l(w, t[13]), 13), 4294967295))), v.n(w, 10))

    u = x - 16
    if(u > y) return H.a(z, u)
    u = J.c(J.p(w, z[u]), 4294967295)
    if(x > y) return H.a(z, u)
    z[x] = u
    w = this.f
    v = w.length
    if(0 > v) return H.a(w, 0)
    s = w[0]
    if(1 > v) return H.a(w, 1)
    r = w[1]
    if(2 > v) return H.a(w, 2)
    q = w[2]
    if(3 > v) return H.a(w, 3)
    p = w[3]
    if(4 > v) return H.a(w, 4)
    o = w[4]
    if(5 > v) return H.a(w, 5)
    n = w[5]
    if(6 > v) return H.a(w, 6)
    m = w[6]
    if(7 > v) return H.a(w, 7)
    l = w[7]
    for(x = 0, k = 0; k < 8; ++k) { v = J.bR(o)
    u = v.n(o, 6)
    t = $.getSdd()
    u = J.p(J.r(J.r(J.B(u, J.c(J.v(v.l(o, t[26]), 26), 4294967295)), J.B(v.n(o, 11), J.c(J.v(v.l(o, t[21]), 21), 4294967295))), J.B(v.n(o, 25), J.c(J.v(v.l(o, t[7]), 7), 4294967295))), J.r(v.l(o, n), J.c(v.ar(o), m))
    j = $.getSiO()
    if(x > 64) return H.a(j, x)
l=J.c(g.j(l,p),4294967295)
g=J.o(o)
p=J.c(J.p(p,J.r(J.r(J.B(g.n(0,2),J.c(J.v(g.l(0,t[30]),30),4294967295)),J.B(g.n(0,13),J.c(J.v(g.l(0,t[19]),19),4294967295)),J.B(g.n(0,22),J.c(J.v(g.l(0,t[10]),10),4294967295))),J.r(J.r(g.l(0,n),g.l(0,m)),u.l(n,m))),4294967295);++x
h=J.bR(l)
h=J.p(f.j(q,J.r(J.r(J.B(h.n(l,6),J.c(J.v(h.l(l,t[26]),26),4294967295))),J.B(h.n(1,1),J.c(J.v(h.l(l,t[21]),21),4294967295))
),J.B(h.n(1,25),J.c(J.v(h.l(l,t[7]),7),4294967295)))),J.r(h.l(l,s),J.c(h.ar(l,r))))
if(x>=64)return H.a(j,x)
h=J.p(h[j][x])
if(x<y)return H.a(z,x)
q=J.c(J.p(h,z[x]),4294967295)
m=J.c(i(m,q),4294967295)
i=J.o(p)
q=J.c(J.p(p,J.r(J.r(J.B(i.n(p,2),J.c(J.v(i.l(p,t[30]),30),4294967295)),J.B(i.n(p,13),J.c(J.v(i.l(p,t[19]),19),4294967295)),J.B(i.n(p,22),J.c(J.v(i.l(p,t[10]),10),4294967295)))),J.r(J.r(i.l(p,o),i.l(p,n)),g.l(o,n))),4294967295);++x
h=J.bR(m)
h=J.p(e.j(r,J.r(J.r(J.B(h.n(m,6),J.c(J.v(h.l(m,t[26]),26),4294967295))),J.B(h.n(m,11),J.c(J.v(h.l(m,t[21]),21),4294967295))),J.B(h.n(m,25),J.c(J.v(h.l(m,t[7]),7),4294967295)))),J.r(h.l(m,l),J.c(h.ar(m,s))))
if(x>=64)return H.a(j,x)
h=J.p(h[j][x])
if(x=y)return H.a(z,x)
r=J.c(J.p(h,z[x]),4294967295)
n=J.c(u.j(r,n),4294967295)
u=J.o(q)
r=J.c(J.p(p,J.r(J.r(J.B(u.n(q,2),J.c(J.v(u.l(q,t[30]),30),4294967295)),J.B(u.n(q,13),J.c(J.v(u.l(q,t[19]),19),4294967295)),J.B(u.n(q,22),J.c(J.v(u.l(q,t[10]),10),4294967295)))),J.r(J.r(u.l(q,p),u.l(q,o)),i.l(p,o))),4294967295);++x
i=J.bR(n)
i=J.p(v.j(s,J.r(J.r(J.B(i.n(n,6),J.c(J.v(i.l(n,t[26]),26),4294967295))),J.B(i.n(n,11),J.c(J.v(i.l(n,t[21]),21),4294967295))),
),J.B(i.n(n,25),J.c(J.v(i.l(n,t[7]),7),4294967295)))),J.r(i.l(n,m),J.c(i.ar(n,l))))
if(x>=64)return H.a(j,x)
j=J.p(i[j][x])
if(x=y)return H.a(z,x)
s=J.c(J.p(j,z[x]),4294967295)
o=J.c(g.j(o,s),4294967295)
g=J.o(r)
s=J.c(J.p(p,J.r(J.r(J.B(g.n(r,2),J.c(J.v(g.l(r,t[30]),30),4294967295)),J.B(g.n(r,13),J.c(J.v(g.l(r,t[19]),19),4294967295)),J.B(g.n(r,22),J.c(J.v(g.l(r,t[10]),10),4294967295))),J.r(J.r(g.l(r,q),g.l(r,p)),u.l(q,p))),4294967295);++x}
w[0]=J.c(J.p(w[0],s),4294967295)
w[1]=J.c(J.p(w[1],r),4294967295)
w[2]=J.c(J.p(w[2],q),4294967295)
w[3]=J.c(J.p(w[3],p),4294967295)
w[4]=J.c(J.p(w[4],o),4294967295)
w[5]=J.c(J.p(w[5],n),4294967295)
w[6]=J.c(J.p(w[6],m),4294967295)
w[7]=J.c(J.p(w[7],l),4294967295)
}]];"",",S,"",""nn:{"":"d;",p:function(a){return this.b.p(0)}},dE:{"":"d;"},
ghe:funct()}[return this,b==null&&this.c==null],
sIL:function(a){this.f=a},
Open Source Used In Edge and Fog Processing Module 1.6.0

718

```javascript
q:function(a,b){
  var z
  if(b===null)return!
  if(b instanceof S.dE){z=this.b
    if(z==null&&this.c==null)return b.b==null&&b.c==null
    return J.n(z,b.b)&J.n(z,b.c)}
  if(z==null&&this.c==null)return 0
  return J.n(z,b)>
}

g1:function(a){
  var z=this.b
  if(z==null&&this.c==null)return 0
  return J.a(z)^J.a(this.c)>
}

v:function(a,b){
  if(b.ai()<0)throw H.b(P.N("The multiplicator cannot be negative"))
  if(this.b==null&&this.c==null)return this
  if(b.ai()==0)return this.a.d
  return this.e.$3(this.b,this.c)
}

g1:function(a){
  return this.e.$3(this.b,this.c)>
}

x:function(a,b,c){
  var z,y,x,w,v,u,t,s,r,q,p,o,n
  z=c==null!(c instanceof E.jV)?new E.jV(null,null):c
  y=J.fW(b)
  x=J.o(y)
  if(x.u(y,13)){w=2
    return this.e.$3(this.b,this.c)
  }
  return J.n(z,b)
}
```

```javascript
function(a,b,c){
  var z,y,x,w,v,u,t,s,r,q,p,o,n
  z=c==null!(c instanceof E.jV)?new E.jV(null,null):c
  y=J.fW(b)
  x=J.o(y)
  if(x.u(y,13)){w=2
    return this.e.$3(this.b,this.c)
  }
  return J.n(z,b)
}
```
t=u\) else \{if(u&ge;z)\text{return }H.a(y,u)\linebreak y[u]=0\} \text{b}=b.d+1;++u\}+\linebreak z=\text{new Array}(t)\linebreak z.\text{fixedSize}=\text{Array}\linebreak q=H.f(z,[P.q])\linebreak C.c bk(q,0,C.c.U(y,0,t))\linebreak \text{return }q\}\linebreak k8: \text{function}(a,b)\{\text{var } z,y,x\linebreak z=\text{new Uint8Array}(H.a5(a.cu()))\linebreak y=\text{z.length}\linebreak \text{if}(b&lt;y)\text{return }C.h.as(z,y-b)\text{ else if}(b&gt;y)\{x=\text{new Uint8Array}(H.a6(b))\linebreak C.h bk(x,b-y,z)\linebreak \text{return }x\} \text{return }z\},\linebreak ag:\{"^":nJ:a,E:b>\},\linebreak dg:\text{function}()\{\text{return this.b}\},\linebreak j:\text{function}(a,b)\{\text{var } z,y\linebreak z=\text{this.a}\linebreak y=\text{this.b.j(0,b.dg()).A(0,z)}\linebreak \text{if}(y.J(0,z))H.x(P.N("Value x must be smaller than q"))\\text{return }\text{new }E.ag(z,y)\},\linebreak m:\text{function}(a,b)\{\text{var } z,y\linebreak z=\text{this.a}\linebreak y=\text{this.b.m(0,b.dg()).A(0,z)}\linebreak \text{if}(y.J(0,z))H.x(P.N("Value x must be smaller than q"))\\text{return }\text{new }E.ag(z,y)\},\linebreak v:\text{function}(a,b)\{\text{var } z,y\linebreak z=\text{this.a}\linebreak y=\text{this.b.v(0,b.dg()).A(0,z)}\linebreak \text{if}(y.J(0,z))H.x(P.N("Value x must be smaller than q"))\\text{return }\text{new }E.ag(z,y)\},\linebreak cB:\text{function}(a,b)\{\text{var } z,y\linebreak z=\text{this.a}\linebreak y=\text{this.b.v(0,b.b.d8(0,z)).A(0,z)}\linebreak \text{if}(y.J(0,z))H.x(P.N("Value x must be smaller than q"))\\text{return }\text{new }E.ag(z,y)\},\linebreak av:\text{function}(a)\{\text{var } z,y\linebreak z=\text{this.a}\linebreak y=\text{this.b.av(0).A(0,z)}\linebreak \text{if}(y.J(0,z))H.x(P.N("Value x must be smaller than q"))\\text{return }\text{new }E.ag(z,y)\},\linebreak ie:\text{function}()\{\text{var } z,y,x,w,v,u,t,s,r,q,p,o\linebreak z=\text{this.a}\linebreak \text{if}(z.bg(0))\text{throw }H.b(\text{new }P.bq("Not implemented yet"))\linebreak \text{if}(z.bg(1))\{y=\text{this.b.aL(0,z.n(0,2).j(0,Z.bx()),z)}\linebreak x=\text{new }E.ag(z,y)\\text{if}(y.J(0,z))H.x(P.N("Value x must be smaller than q"))\linebreak y=y.aL(0,Z.co(),z)\}
if(y.J(0,z))H.x(P,N("Value x must be smaller than q"))
return new E.ag(z,y).q(0,this)?x:null}w=z.m(0,Z.bx())
v=w.n(0,1)
y=this.b
if(!y.aL(0,v,z).q(0,Z.bx()))return
u=w.n(0,2).X(0,1).j(0,Z.bx())
t=y.n(0,2).A(0,z)
s=$.getSiQ().kz(""")
do{do r=s.hi(z.aR(0))
while(r.J(0,z)||!r.v(0,r).m(0,t).aL(0,v,z).q(0,w))
q=this.jt(z,r,y,u)
p=q[0]
o=q[1]
if(o.v(0,o).A(0,z).q(0,t))o=(o.bg(0)?o.j(0,z):o).n(0,1)
if(o.J(0,z))H.x(P,N("Value x must be smaller than q"))
return new E.ag(z,o)}]}while(p.q(0,Z.bx())||p.q(0,w))
return

jt:function(a,b,c,d){var z,y,x,w,v,u,t,s,r
z=d.aR(0)
y=d.ghg()
x=Z.bx()
w=Z.co()
v=Z.bx()
u=Z.bx()
if(typeof z!="number")return z.m()
t=z-1
s=y+1
r=b
for(;;s--){v=v.v(0,u).A(0,a)
if(d.bg(t)){u=v.v(0,c).A(0,a)
x=x.v(0,r).A(0,a)
w=r.v(0,w).m(0,b.v(0,v)).A(0,a)
r=r.v(0,r).m(0,u.X(0,1)).A(0,a)}else{x=x.v(0,w).m(0,v).A(0,a)
if((t>1; t<=y; ++t){x=x.v(0,w).A(0,a)
v=v.v(0,u).A(0,a)
x=x.v(0,w).m(0,v).A(0,a)
w=r.v(0,w).m(0,b.v(0,v)).A(0,a)
for(;;){x=x.v(0,w).A(0,a)
w=w.v(0,w).m(0,v.X(0,1)).A(0,a)
if(b instanceof E.ag)return this.a.q(0,b.a)&&this.b.q(0,b.b)
return!!}
gal1:function(a){return(H.aM(this.a)^H.aM(this.b))>>>0}]},
hN:function(a){ var z,y,x,w,v,u
  z=this.b
  if(z==null&this.c==null)return new Uint8Array(H.b5([1]))
  y=z.aR(0)
  if(typeof y!="number")return y.j()
  x=C.d.a(0+y,7,8)
  w=E.k8(z.b,x)
  v=E.k8(this.c.b,x)
  z=w.length
  y=H.a6(z+v.length+1)
  u=new Uint8Array(y)
  if(0>=y)return H.a(u,0)
  u[0]=4
  C.h.bl(u,1,w)
  return u}
}

j:function(a,b){ var z,y,x,w,v,u,t,s
  z=this.b
  if(z==null&&this.c==null)return b
  if(b.ghe())return this
  y=b.b
  x=J.t(z)
  if(x.q(z,y)){if(J.n(this.c,b.c))return this.eK()
  return this.a.d}
  w=this.c
  v=b.c.m(0,w).cB(0,y.m(0,z))
  u=v.a
  t=v.b.l(0,v.w)
  if(t(J(0,u))H.x(P.N("Value x must be smaller than q"))
  s=new E.ag(u,t).m(0,z).m(0,y)
  return E.c0(this.a,s,v.v(0,x.m(z,s)).m(0,w),this.d)}

eK:function(){ var z,y,x,w,v,u,t,s,r,q
  z=this.b
  if(z==null&&this.c==null)return this
  y=this.c
  if(y.b.q(0,0))return this.a.d
  x=this.a
  w=Z.co()
  v=x.c
  u=new E.ag(v,w)
  if(w.J(0,v))H.x(P.N("Value x must be smaller than q"))
  w=Z.Ij()
  if(w.J(0,v))H.x(P.N("Value x must be smaller than q"))
  t=z.a
  s=z.b.aL(0,Z.co(),t)
  if(s.J(0,t))H.x(P.N("Value x must be smaller than q"))
  r=new E.ag(t,s).v(0,new E.ag(v,w)).j(0,x.a).cB(0,y.v(0,u))
  w=r.a
  v=r.b.aL(0,Z.co(),w)
if(v.J(0,w))H.x(P.N("Value x must be smaller than q"));
q=new E.ag(w,v).m(0,z.v(0,u));
return E.c0(x,q.r.v(0,z.m(0,q)).m(0,y),this.d)},
m:function(a,b){var z,y,x,w
if(b.ghe())return this
z=b.a
y=b.b
x=b.c
w=x.a
x=x.b.av(0).A(0,w)
if(x.J(0,y))H.x(P.N("Value x must be smaller than q"));
return E.c0(0,E.c0(z,y,new E.ag(w,x),b.d))},
av:function(a){var z,y
z=this.c
y=z.a
z=z.b.av(0).A(0,y)
if(z.J(0,y))H.x(P.N("Value x must be smaller than q"));
return this.j(0,E.c0(z,y,new E.ag(w,x),b.d))},
av:function(a){var z,y
z=this.c
y=z.a
z=z.b.av(0).A(0,y)
if(z.J(0,y))H.x(P.N("Value x must be smaller than q"));
return E.c0(this.a,this.b,new E.ag(y,z),this.d)},{
iD:function(a,b,c,d){var z=b==null
if(!(!z&&c==null))z=z&&c!=null
else z=0
if(z)throw H.b(P.N("Exactly one of the field elements is null")),
C:{
c0:function(a,b,c,d){var z=new E.cT(a,b,c,d,E.uV(),null)
z.iD(a,b,c,d)
return z}},{
hO:{"^":nE;c,d,a,b",
gl6:function(){return this.d},
q:function(a,b){if(b==null)return!1
if(b instanceof E.hO)return this.c.q(0,b.c)&&J.n(this.a,b.a)&&J.n(this.b,b.b)
return!1},
ga1:function(a){return(J.ao(this.a)^J.ao(this.b)^H.aM(this.c))>>>0},
eo:function(a){"var z,
this.b=a.b
z=a.a
this.a=z.gkL()},{
hK:function(){var z,y,x,w,v
z=this.a.e
y=z.aR(0)
do x=this.b.hi(y)
while(x.q(0,Z.iK)()))|x.J(0,z))
w=this.a.d.v(0,x)
v=this.a
return H.f(new S.lu(new Q.dG(w,v),new Q.dF(x,v),[null,null]))},
[gkL:function(){return this.b}]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
]}}
}
i0:function(a,b){this.d=this.c.length
C.h.bk(this.b,0,H.fT(b,"$isd1","[S.dw],"$asd1"),a)
this.a.d2(0,H.fT(b,"$isd1","[S.dw],"$asd1"),b)},
cn:function(){var z,y
z=this.d
y=this.c
if(z===y.length){this.a.lN(this.b,0,y,0)
this.d=0
this.jm()}z=this.d++
if(y>=z.length)return H.a(z,y)
return z[y]&255],
jm:function(){var z,y,x
z=this.b
y=z.length
x=y
do{--x
if(x<0)return H.a(z,x)
z[x]=z[x]+1}while(z[x]===0)}]}]
[^]{"d;","^":"d;","hj:function(){var z=this.cn()
return(this.cn())<8?[165535],
hi:function(a){return Z.bg(1,this.jR(a))},
jR:function(a){var z,y,x,w,v
if(typeof a!="number")return a.u()
if(a<0)throw H.b(P.N("numBits must be non-negative"))
z=C.d.a0(a+7,8)
y=H.a6(z)
x=new Uint8Array(y)
if(x>0){for(w=0;w<y;++w){v=this.cn()
if(w>=y)return H.a(x,w)
x[w]=v}if(0>=y)return H.a(x,0)
x[0]=y[0]&C.b.X(1,8-(8*z-a)-1]return x }}]["","","R","^","","v:
kv:function(a,b){b&=31
return J.c(J.v(J.c(a,$.$get$dd()[b]),b),4294967295)},
ei:function(a,b,c,d){var z
if(!J.t(b).$isby){z=b.buffer
H.au(z,0,null)
b=new DataView(z,0)}
return H.aK(b,"$isby").setUint32(c,a,C.f===d),
ei:function(a,b,c){var z=J.t(a)
if(!z.$isby){z=z.get$dd()[b],b},4294967295]),
ei:function(a,b,c,d){var z
if(!J.t(b).$isby){z=b.buffer
z.toString
H.au(z,0,null)
b=new DataView(z,0)]H.aK(b,"$isby").setUint32(c,a,C.f===d),
ei:function(a,b,c){var z=J.t(a)
if(!z.$isby){z=z.get$dd()[b],b},4294967295]),
ei:function(a,b,c,d){var z
if(!J.t(b).$isby){z=b.buffer
z.toString
H.au(z,0,null)
a=new DataView(z,0)]return H.aK(a,"$isby").getUint32(b,C.f===c)},
d5:{"^":"d;","dP:a<,b","q:function(a,b){if(b==null)return !1
return J.n(this.a,b,gdP())&&J.n(this.b,b,b)},
u:function(a,b){var z

if(!J.E(this.a,b.gdP()))z=J.n(this.a,b.a)&&J.E(this.b,b.b)
else z=!0
return z},

ae:function(a,b){return this.u(0,b)||this.q(0,b)},

B:function(a,b){var z
if(!J.T(this.a,b.gdP()))z=J.n(this.a,b.a)&&J.T(this.b,b.b)
else z=!0
return z},

J:function(a,b){return this.B(0,b)||this.q(0,b)},

c2:function(a,b,c){if(b instanceof R.d5){this.a=b.a
this.b=b.b}else{this.a=0
this.b=b}}},
i9:function(a,b){return this.c2(a,b,null)},

c3:function(a){var z,y,x
z=J.p(this.b,(a&4294967295)>>>0)
y=J.o(z)
x=y.l(z,4294967295)
this.b=x
if(!y.q(z,x))}{y=J.p(this.a,1)
this.a=y
this.a=J.c(y,4294967295)}},
p:function(a){var z,y
z=new P.aV("")
this.fo(z,a)
return y.charCodeAt(0)==0?y:y},

c3:function(a){var z,y,x
z=J.bV(b,16)
for(y=8-z.length;y>0;--y)a.a+="0"
this.a=z}

if(a==b)return!0
y=J.o(a)
x=a.l(a,4294967295)
if(!y.q(a,x)){y=J.p(this.a,1)
this.a=y
this.a=J.c(y,4294967295)}},

h:function(a,b){return this.a.h(0,b)},
k:function(a,b,c){this.a=k(0,b,c)},

D:function(a,b){return this.a.D(0,b)},

kQ:function(a,b){var z,y,x,w
if(a===b)return!0
z=a.length
y=b.length
if(z!==y)return!1
for(x=0;x<z;++x){w=a[x]
x=b[x]
if(w!==b[x])return!1}
return!0
}

l5:function(a,b){var z,y,x
for(z=b.length,y=0;x<z;++x){w=a[x]}
for(x>y)return H.a(b,x)
if(w==b[x])return!1
if(a==b)return!0
z=a.length
y=b.length
if(z!==y)return!1
for(x=0;x<z;++x){w=a[x]}
if(x>y)return H.a(b,x)
if(w==b[x])return!1
return!0
}];
}]);
w=new V.ty(y,x,z,C.j,new Uint32Array(H.a6(16)),0,new B.r0(v,w),!1)
y[0]=1779033703
y[1]=3144134277
y[2]=1013904242
y[3]=2773480762
y[4]=1359893119
y[5]=2600822924
y[6]=528734635
y[7]=1541459225
w.K(0,a)
w.ai(0)
return z.a ] ]],[]["""",G.{""":""",o5:{""":"d."}]
K:function(a,b){if(this.f)throw H.b(new P.I("Hash.add() called after close()."))
this.d=this.d+J.y(b)
this.e.aF(0,b)
this.fl(),
aJ:function(a){if(this.f)return
this.f=!0
this.je()
this.fl()
this.a.a=new B.eN(this.iZ()),
iZ:function(){var z,y,x,w,v
if(this.b===$.$get$hS()){z=this.r.buffer
z.toString
return H.c4(z,0,null)}z=this.r
y=new Uint8Array(H.a6(z.byteLength))
x=y.buffer
x.toString
w=H.aU(x,0,null)
for(v=0;v<8;++v)w.setUint32(v*4,z[v],!1)
return y},
fl:function(){var z,y,x,w,v,u,t,s,r,q,p
z=this.e
y=z.a.buffer
y.toString
x=H.aU(y,0,null)
y=this.c
w=J.cK(z.b,y.byteLength)
if(typeof w!="number")return H.i(w)
v=y.length
u=C.f===this.b
t=0
for(t<w;++t){for(s=0;s<v;++s){r=y.byteLength
if(typeof r!="number")return H.i(r)
y[s]=x.getUint32(*r+s*4,u)]this.m8(y)y=y.byteLength
if(typeof y!="number")return H.i(y)
z.eC(z,0,w*y}),
je:function(){var z,y,x,w,v,u,t,s,r,q,p
```javascript
z = this.e
z.k7(0, 128)
y = this.d + 9
x = this.c.byteLength
if (typeof x !== "number") return H.i(x)
for (x = ((y + x - 1 & -x) >>> 0) - y, w = 0; w < x; ++w) {
  if (J.n(z.b, z.a.length)) {
    v = z.b
    u = z.bD(null)
    z.a = u
    v = z.a
    u = z.b
    z.b = J.p(u, 1)
    if (u >>> 0 !== u || u >= v.length) return H.a(v, u)
    v[u] = 0
  }
}
x = this.d
if (x > 2305843009213694e3) throw H.b(new P.w("Hashing is unsupported for messages with more than 2^64 bits."))
t = x * 8
s = z.b
z.aF(0, new Uint8Array(H.a6(8)))
z = z.a.buffer
z.toString
r = H.aU(z, 0, null)
q = C.b.a_(t, 32)
p = (t & 4294967295) >>> 0
z = this.b
x = C.f === z
v = J.am(s)
if (z === C.j) {
  r.setUint32(s, q, x)
  r.setUint32(v.j(s, 4), p, x)
} else {
  r.setUint32(s, p, x)
  r.setUint32(v.j(s, 4), q, x)
}
```
if (u.es==null) {t=H.f(new H.a0(0,null,null,null,null,0),[P.A,T.cZ])
  s=H.f(new H.a0(0,null,null,null,null,0),[P.A,{func:1,ret:T.cZ,args:[P.A]}])
  s=new T.qi(null,null,t,[],null,null,null,new T.nB())
  $iT=s
  r=H.f(new H.a0(0,null,null,null,null,0),[[func:1,args:[O.c7]],P.q])
  r=new T.bF(s,1,1,1,0,1,null,"7",r,null,1,null,P.a5(),P.aj("$is","node"),P.a5())
  s.e=r
  t.k(0,"/r",r)
  r=H.f(new H.a0(0,null,null,null,null,0),[[func:1,args:[O.c7]],P.q])
  q=P.a5()
  p=P.aj("$is","node")
  q=new T.iS(s,1,1,1,0,1,null,"/defs",r,null,1,null,q,p,P.a5())
  p.k(0,"Hidden",!0)
  s.f=q
  t.k(0,"/defs",q)
  r=H.f(new H.a0(0,null,null,null,null,0),[[func:1,args:[O.c7]],P.q])
  q=P.a5()
  p=P.aj("$is","node")
  q=new T.iS(s,1,1,1,0,1,null,"/sys",r,null,1,null,q,p,P.a5())
  p.k(0,"Hidden",!0)
  s.r=q
  t.k(0,"/sys",q)
  s.d2(null,u.c)
}
}

e=s
s.a=u.ghZ(u).u.e.eo(u.b)
z=3
return P.O(u.d3(),$async$d1.y)
case 3:case 1:return P.O(x,0,y,null)
case 2:return P.O(v,1,y)) )
return P.O(null,$async$d1.y,null),
d3:function() {var z=0,y=new P.b_(),x,w=2,v,u=this,t,s,r,q,p
  var $async$d3=P.b6(function(a,b){if(a==1){v=b
  z=w}while(true)switch(z){case 0:if(u.cx){z=1
  break}u.cx=0
if(u.es==null) {t=H.f(new H.a0(0,null,null,null,null,0),[P.A,T.cZ])
  s=H.f(new H.a0(0,null,null,null,null,0),[P.A,{func:1,ret:T.cZ,args:[P.A]}])
  s=new T.qi(null,null,t,[],null,null,null,new T.nB())
  $iT=s
  r=H.f(new H.a0(0,null,null,null,null,0),[[func:1,args:[O.c7]],P.q])
  r=new T.bF(s,1,1,1,0,1,null,"7",r,null,1,null,P.a5(),P.aj("$is","node"),P.a5())
  s.e=r
  t.k(0,"/r",r)
  r=H.f(new H.a0(0,null,null,null,null,0),[[func:1,args:[O.c7]],P.q])
  q=P.a5()
  p=P.aj("$is","node")
  q=new T.iS(s,1,1,1,0,1,null,"/defs",r,null,1,null,q,p,P.a5())
  p.k(0,"Hidden",!0)
  s.f=q
  t.k(0,"/defs",q)
  r=H.f(new H.a0(0,null,null,null,null,0),[[func:1,args:[O.c7]],P.q])
  q=P.a5()
  p=P.aj("$is","node")
  q=new T.iS(s,1,1,1,0,1,null,"/sys",r,null,1,null,q,p,P.a5())
  p.k(0,"Hidden",!0)
  s.r=q
  t.k(0,"/sys",q)
  s.d2(null,u.c)
}

v.r = u
t = v.x
s = v.ch
r = H.f(new P.aG(H.f(new P.R(0,$.z,null),[L.d6]),[L.d6]))
q = H.f(new P.aG(H.f(new P.R(0,$.z,null),[null]),[null]))
p = H.f(new Array(3),[P.A])
o = H.k(v.y)+u.geA().glP()  
n = L.im(null)
u = new Y.IO(r,q,o,s,n,u.null(null),!1,p.null(t,null,["msgpack"","json"],"json",1,1,1))
if(!t.aa(0,"/")) u.cx="http://"+H.k(t)
if(s.gi(s).B(0,16)) {m = s.H(0,0,16)
l = K.mb(Q.kA(o+H.k(s)))
u.cy = "&token="+H.k(m)+!1} J.aP(window.location.hash,"dsa_json")
v.a = u
return P.O(null,0,y,null)
case 1:return P.O(w,1.y)
} case 2:return P.O(v,1.y)
t="dsa_key:"+H.k(window.location.pathname)  
s="dsa_key_lock:"+H.k(window.location.pathname)  
r=""+Date.now()+" "+$.$getScB().a.hj()+" "+$.$getScB().a.hj()  
u=J.t(a)  
q=!u.$isqR  
z=q?5:7  
bright
  case 5:c=window.localStorage.getItem(t)!=null  
z=6  
  break
  case 7;z=8  
  return P.O(u.el(a,t),$async$b8,y)
  case 8:case 6:z=c!!!0?3:4  
  break
  case 3:z=q?9:11  
  break
  case 9:window.localStorage.setItem(s,r)  
z=10  
  break
  case 11:window.localStorage.setItem(s,r)  
p=H.f(new P.R(0,$.z.null),[null])  
p.$I($null)  
z=12  
  return P.O(p,$async$b8,y)
  case 12:case 10;z=13  
  return P.O(P.o1(C.S,null,null),$async$b8,y)
  case 13:z=q?14:16  
  break
  case 14:o=window.localStorage.getItem(s)  
n=window.localStorage.getItem(t)  
z=15  
  break
  case 16;z=17  
  return P.O(u.bj(a,s),$async$b8,y)
  case 17:o=c  
z=18  
  return P.O(u.bj(a,t),$async$b8,y)
  case 18:n=c  
  case 15:if(J.n(o,r))\{if(!u.$isf2)Y.k6(s,r)
  u=$.$getScB().lg(n)
  $.e8=u
  x=u
  z=1  
  break\}
  s=null
  case 4;z=19  
  return P.O(K.fg(),$async$b8,y)
  case 19:p=c  
  $.e8=p
z=s!=null?20:21
break
case 20:x=q?22:24
break
case 22:q=p.eW()
window.localStorage.setItem(t,q)
window.localStorage.setItem(s,r)
z=23
break
case 24:q=p.eW()
window.localStorage.setItem(t,q)
q=H.f(new P.R(0,$.z,null),[null])
q.aI(null)
z=25
return P.O(q,$async$nb,y)
case 25:window.localStorage.setItem(s,r)
q=H.f(new P.R(0,$.z,null),[null])
q.aI(null)
z=26
return P.O(q,$async$nb,y)
case 26:case 23:if(!!u.$isf2)Y.k6(s,r)
case 21:x=$.e8
z=1
break
case 1:return P.O(x,0,y,null)
case 2:return P.O(v,1,y) }) )
return P.O(null,$async$nb,y,null)},
k6:function(a,b){var z=H.f(new W.b4(window,"storage","!"),[H.J(C.Y,0)])
H.f(new W.aH(0,z.a,z.b,W.aI(new Y.uw(a,b)),!1),[H.J(z,0)].ao()),
nb:{"^":"d;"},
f2:{"^":"nb;"},
bj:function(a,b){var z=0,y=new P.b_(x),w=2,v
var $async$bj=P.b6(function(c,d){if(c===1){v=d
z=w}while(true)switch(z){case 0:x=window.localStorage.getItem(b)
z=1
break
case 1:return P.O(x,0,y,null)
case 2:return P.O(v,1,y) }) )
return P.O(null,$async$bj,y,null)},
el:function(a,b){ var z=0,y=new P.b_(x),w=2,v
var $async$el=P.b6(function(c,d){if(c===1){v=d
z=w}while(true)switch(z){case 0:x=window.localStorage.getItem(b)!=null
z=1
break
case 1:return P.O(x,0,y,null)
case 2:return P.O(v,1,y) }) )
return P.O(null,$async$el,y,null)},
$isqR:1},
uw:{"^":m:27,a,b,
$1:function(a){var z=this.a
if(J.n(J.kW(a),z)window.localStorage.setItem(z,this.b))},
I0:{"^":"eq:a,b,c,d,e,f,r,x,y,z,Q,ch,cx,dy,fr,fx",
ghl:function(){return this.b.a},
eM:function(a,b){var z=this.Q
if(b>=3)return H.a(z,b)
z[b]=a},
hC:function(a){return this.eM(a,0)},
b_:[function(a){var z=0,y=new P.b_(),x,w=2,v,u=[],t=ch,cy,db,dx,dy,fr,fx
var $async$b_=P.b6(function(b,c){if(b===1){v=c
z=w}while(true)switch(z){case 0:if(t.fx){z=1
break}$.$uq=!0
m=t.c
s=H.k(t.cx)+"?dsId="+m
if(t.cy!=null)s=H.k(s)+H.k(t.cy)
r=P.d8(s,0,null)
Q.av().en("Connecting: "+H.k(r))
w=4
l=t.r
q=P.aj(["publicKey",l,0.15,"isRequester",t.e!=null,"isResponder",t.f!=null,"formats",t.db,"version","1.1.2","enableWebSocketCompression",1])
z=7
return P.O(W.o9(s,"POST","application/json",null,null,null,$.$get$bA().ej(q,1),1),$async$b_.y)
case 7:p=c
k=J._(p)
o=$.$get$bA().h4(k)
C.am.O(0,new Y.lP(t,o))
n=J.j(o,"tempKey")
h=t
h=8
return P.O(l.dq(n),$async$b_.y)
case 8:h.x=c
l=J.j(o,"wsUri")
if(typeof l==='string')[{m=C.a.hq(H.k(r.df(J.j(o,"wsUri")))+"?dsId="+m,"http","ws")
t.ch=m
if(t.cy!=null)t.ch=m+H.k(t.cy)t.z=J.dn(o,"version")
m=J.j(o,"format")
if(typeof m==='string')dx=J.j(o,"format")
t.ep(1)
t.dy=1
t.fr=1
w=2
z=6
break
case 4:w=3
i=v
H.Y(i)
Q.eT(t.gkv(t,dy*1000))
m=t.dy
if(m<60)t.dy=m+1
z=6
break
case 3:z=2
break
case 6:case 1:return P.O(x,0,y,0,null)
case 2:return P.O(v,1,y)}
return P.O(null,$async$null),"$0","gkv",0,0,0,
ep:[function(a){var z,y
if(this.fx)return
z=Y.rk(W.rl(H.k(this.ch)+"&auth="+this.x.hc(this.Q[0])+"&format="+H.k(this.dx),null),this,this.z,new Y.IQ(this),Q.nr(this.dx))
this.y=z
y=this.f
if(y!=null)y.sh1(0,z,c)
if(this.e!=null)this.y.a.aW(new Y.IR(this))
this.y.f.a.aW(new Y.IS(this,a)),function(){return this.ep(!0)},"mI","$1","$0","ghd",0,2,28,2],
$2:function(a,b){var z,y,x
z=this.a.Q
y=b
x=J.j(this.b,a)
if(y>>>0!==y||y>=3)return H.a(z,y)
z[y]=x
},
$IQ:{"^":"m:0;a",
$0:function(){var z=this.a.b
if(z.a.a===0)z.fY(0)},
$R:{"^":"m:1:a",
$1:function(a){var z,y
z=this.a
if(z.fx)return
y=z.e
y.sh1(0,a)
if(z.a===0)z.aj(0,y)}
else if(this.b===!0)if(a===!0)z.b_(0)
else Q.eT(z.ghd(),z.fr+1000)
y=z.fr
if(y<60)z.fr=y+1}else{z.fr=5
v=q
u=H.ae(o)
Q.av().ds("error in onData",v,u)
this.aJ(0)
return}else{q=J.af(a)
if(typeof q==='string')try{z=this.a.cb(J.af(a))
Q.av().bd(H.k(z))
t=!1
if(!J.t(J.j(z,"responses")).$ish&J.T(J.y(H.eg(J.j(z,"responses")),0))(t!=0)
q=J.d.a
p=J.j(z,"responses")
if(q.b>4)H.x(q.af())
q.a3(0,p)if(!J.t(J.j(z,"requests")).$ish&J.T(J.y(H.eg(J.j(z,"requests")),0))(t!=0)
q=J.c.a
p=J.j(z,"requests")
if(q.b>=4)H.x(q.af())
q.a3(0,p)if(!J.t(J.j(z,"ack"))this.c.a
p=J.j(z,"ack")
if(typeof q==='number'&&Math.floor(q)===q)if(N.J.j(z,"ack")
if(t===!0){s=J.j(z,"msg")
if(s!=null)this.e3("ack",s)}
catch(o){q=H.¥(o)
r=q
Q.av().eX(r)
this.aJ(0)
return}}
"$1","gjA",2,0,31],
mA:[function(){var z,y,x,w,v,u,t,s,r,q
this.dx=!1
x=this.x
if(x.readyState!==1)return
Q.av().bd("browser sending")
w=this.cx
if(w!=null){this.cx=null
v=!0}else{w=P.a5()
v=!1}
u=H.f([],[O.m7])
t=Date.now()
s=this.c.c0(t,this.db)
if(s!null){r=s.a
if(r.length>0){w.k(0,"responses",r)
v=!0}
if(r.length>0)C.caF(u,r)}s=this.d.c0(t,this.db)
if(s!null){r=s.a
if(r.length>0){w.k(0,"requests",r)
v=!0}
if(r.length>0)C.caF(u,r)}v=!0}
if(r.length>0)C.caF(u,r)}if(v){r=H.t}
if(!1){if(r.length>0)this.b.aC(0,new O.hf(r,t,null,u))
w.k(0,"msg",this.db)
t=H.db
if(t<2147483647)H.db=t+1
else this.db=1]Q.av().bd("send: "+H.k(w))
z = this.a.ci(w)
t = z
r = H.eb(t, "$ish", [P.q], "$ash")
if(r) z = Q.ex(H.IT(z, "$ish", [P.q], "$ash"))
try {x.send(z)} catch(q) {x = H.Y(q)
y = x
Q.av().ib("Unable to send on socket", y)
this.aJ(0) {this.Q = !0}, "$0", "$9W", 0, 2,]
jE: {function(a) { var z, y
if(!J.t(a).$isey) if(a.code === 1006) this.dy = !0
Q.av().bd("socket disconnected")
z = this.d.a
if((z.b & 4) === 0) z.aJ(0)
z = this.d
y = z.r
if(y.a.a === 0) y.aj(0, z)
z = this.c.a
if((z.b & 4) === 0) z.aJ(0)
z = this.c
y = z.r
if(y.a.a === 0) y.aj(0, z)
z = this.f
if(z.a.a === 0) z.aj(0, this.dy)
z = this.z
if(z != null) z.V(0), function() { return this.jE(null), "$D", "$1", "$0", "$gf", 0, 2, 19, 0],
a1: function(a) { var z, y
z = this.x
y = z.readyState
if(y === 1 || y === 0) z.close()
this.jD()},
iL: function(a, b, c, d, e) { var z, y, x
if(e != null) this.a = e
if(c !== !0) this.db = -1
z = this.x
z.binaryType = "arraybuffer"
this.c = new O.iu(P.fj(null, null, null, null, 1, P.h), [], this.null, !1, 1, H.f(new P.aG(H.f(new P.R(0, $z, null), [O.aS]), [O.aS]), H.f(new P.aG(H.f(new P.R(0, $z, null), [O.aS]), [O.aS]), [O.aS]), [O.aS]))
this.d = new O.iu(P.fj(null, null, null, null, 1, P.h), [], this.null, !1, 1, H.f(new P.aG(H.f(new P.R(0, $z, null), [O.aS]), [O.aS]), H.f(new P.aG(H.f(new P.R(0, $z, null), [O.aS]), [O.aS]), [O.aS]), [O.aS]))
y = H.f(new W.b4(z, "message", !1), [H.J(C.W, 0)]
x = this.gjA()
this.gf(m)
H.f(new W.aH(0, y, a, y, b, W.al(x), !1), [H.J(y, 0)]).ao()
y = H.f(new W.b4(z, "close", !1), [H.J(C.U, 0)])
H.f(new W.aH(0, y, a, y, b, W.al(this.gf(m)), !1), [H.J(y, 0)]).ao()
z = H.f(new W.b4(z, "open", !1), [H.J(C.X, 0)])
H.f(new W.aH(0, z, a, z, b, W.al(this.gjA()), !1), [H.J(z, 0)]).ao()
z = this.d
this.c.push(a)
if(!this.e) { z = this.a
if(z != null) z.dr(this)
this.e = !0 }
}
kM: function(a) { var z
this.d.push(a)
if(!this.e) { z = this.a
if(z != null) z.dr(this)
this.e = !0
}
c0: "ji", function(a, b) { var z, y, x, w
this.e = !1
z = this.d
this.d = []
for(y = z.length, x = 0; x < z.length; z.length == y)(0, H.an)(z), ++x) z[x].ig(a, b)
w = this.c
this.c = []
return new O.pU(w, z)].m6: "^": "m:1;a",
$1: function(a) { return this.a.ey() }, d0: "^": "d:a,fT:b>,h0:c<b,H:d>",
hL: function(a, b) { var z = this.b
if(z.D(0, b)) return z.h(0, b)
}
hM: function(a) { var z = this.c
if(z.D(0, a)) return z.h(0, a)
}
fP: "cF", function(a, b) { this.d.k(0, a, b)
}
mP: "iq", function(a) { this.d.Y(0, this.eQ(a)) return a
}
eQ: function(a) { var z = this.d
if(z.D(0, a)) return z.h(0, a)
}
}
eU: function() { var z, y
z = P.f1(P.A, null)
y = this.c
if(y.D(0, "Sis")) z.k(0, "Sis", y.h(0, "Sis"))
if(y.D(0, "Stype")) z.k(0, "Stype", y.h(0, "Stype"))
if(y.D(0, "Sname")) z.k(0, "Sname", y.h(0, "Sname"))
if(y.D(0, "Sinvokable")) z.k(0, "Sinvokable", y.h(0, "Sinvokable"))
if(y.D(0, "Swritable")) z.k(0, "Swritable", y.h(0, "Swritable"))
if(y.D(0, "Sparams")) z.k(0, "Sparams", y.h(0, "Sparams"))
if(y.D(0, "$columns") && z.k(0, "$columns", y.h(0, "$columns")))
if(y.D(0, "$result") && z.k(0, "$result", y.h(0, "$result"))
return z); bD: {"^": "d;am:a, b, I, c, d",
bc:function(){ var y, z
if(J.n(this.a, ";") && J.aP(this.a, $.$get$iv()) !== 0 || J.aP(this.a, "/") !== 0) this.d = 1
if(J.n(this.a, "/")) { this.d = 0
this.c = "/"
this.bc = ""
return } if(J.eo(this.a, "/")) { z = this.a
y = J.D(z)
this.a = y.H(z, 0, J.G(y.gi(z), 1))
x = J.h4(this.a, "/")
z = J.o(x)
if(z.u(x, 0)) { this.c = this.a
this.bc = "" } else if(z.q(x, 0)) { this.b = "/"
this.c = J.bU(this.a, 1) } else { this.b = J.aq(this.a, 0, x)
this.c = J.bU(this.a, z, j(x, 1))
}
if(J.aP(this.b, "/") || J.aP(this.b, "/@")) this.d = 1
}
}
c7: {"^": "d; a, a, b, c, d, e, f, r, x, y, z, Q, ch, cx",
iK:function(a, b, c, d, e, f, g, h) {
var z, y
if(this.c == null) this.c = O.rd()
this.z = new P.bi(Date.now(), !1)
if(d != null) { z = J.D(d)
y = z.h(d, "count")
}
if(typeof y === "number" && Math.floor(y) === y) this.f = z.h(d, "count")
else if(this.b == null) this.f = 0
y = z.h(d, "status")
if(typeof y === "string") this.e = z.h(d, "status")
y = z.h(d, "sum")
if(typeof y === "number") this.r = z.h(d, "sum")
y = z.h(d, "max")
if(typeof y === "number") this.y = z.h(d, "max")
y = z.h(d, "min")
if(typeof y === "number") this.x = z.h(d, "min")
z = this.b
if(!J.n(this.b, z)) z = this.r
if((J.n(z, z)) == z) this.r = this.b
z = this.y
if((J.n(z, z)) == this.b, this.b
z = this.x
if(!J.n(z, z)) this.x = this.b
}
C: {
rd:function() { var z = Date.now()
if(z === $.jm) return $.jn
$.jm = z
z = new P.bi(z, !1).hx() + H.k($.$get$jl())
$.jn = z
return z},
jk:function(a, b, c, d, e, f, g, h) {
var z = new O.c7(-1, a, null, f, b, g, e, c, null, null, null, !1)
z.iK(a, b, c, d, e, f, g, h)
return z }); au: {"^": "/m:0;",}
null
y.toString
w=z.a.e
v=y.x
if(v.D(0,w)){y.Q.k(0,v.h(0,w).geY(),v.h(0,w))
y.de()}else if(y.y.D(0,z.e)Q.av().eX("unexpected remoteSubscription in the requester, sid: "+H.k(z.e))}else if(J.n(x,z.d)&&z.d>1)z.hB()}
_i_:function(a,b){var z,y,x,w,v,u
z=P.aS()
z.aF(0,this.c)
z.aF(0,this.b)
for(y=this.d,x=y.ga9(y),x=x.gL(x);x.w();){w=x.gF()
v=y.h(0,w)
u=J.t(v)
z.k(0,w,!u.$isdT?u.aH(v):v.eU())}y=this.y
y=y!=null&&y.f!=null
if(y)z.k(0,"?value",this.y.f.b)
z.k(0,"?value_timestamp",this.y.f.c)return z],
aH:function(a){return this.i_(a,0)},q1:{"^":"dT;e,f,r,x,y,a,b,c,d"},dU:{"^":"d;a,ht:b<,W:c>,eN:d<,e,f",
hr:function(){this.a.fS(this.c)},
fK:function(a,b){var z,y,x,w,v,u,t
z=J.D(b)
y=z.h(b,"stream")
if(typeof y==='string')this.f=z.h(b,"stream")
x=!!J.t(z.h(b,"updates"));$ish?z.h(b,"updates"):null
w=!!J.t(z.h(b,"columns"));$ish?z.h(b,"columns"):null
v=!!J.t(z.h(b,"meta"));$isU?z.h(b,"meta"):null
if(J.n(this.f,"closed"){this.a.f.Y(0,this.b)
if(z.D(b,"error")===!0&&!J.t(z.h(b,"error"));$isU){z=z.h(b,"error")
u=new O.eM(null,null,null,null,null)
y=J.D(z)
t=y.h(z,"type")
if(typeof t==='string')u.a=y.h(z,"type")
t=y.h(z,"msg")
if(typeof t==='string')u.c=y.h(z,"msg")
t=y.h(z,"path")
if(typeof t==='string')u.d=y.h(z,"path")
t=y.h(z,"phase")
if(typeof t==='string')u.e=y.h(z,"phase")
t=y.h(z,"detail")
if(typeof t==='string')u.b=y.h(z,"detail")
z=this.a.y
if(!z.gb())H.x(z.bB())
z.aE(u)uc=z.aS()
this.d.hn(this.f,x,w,v,u),
fz:function(a){if(J.m(this.f,"closed"){this.f="closed"
this.d.hn("closed",null,null,null,a))){x:Y:{"^":"q4;",q3:{"^":"d;a,b,am:c"}}
V:function(a){var z,y
z=this.a

if(z!=null){y=this.b
y.r.eT(this.c).k9(y,z)
this.a=null}return{}
}

if(y<2147483647){++y
this.r=y}else{this.r=1
y=1}while(z.D(0,y))
return this.r},
hr:function(){this.de()},
fz:function(a){var z=this.x
if(z.gah(z))this.z.aF(0,z.g9(z))
this.cx=0
this.cy=-1
this.db=!1},
fK:function(a,b){var z,y,x,w,v,u,t,s,r,q,p,o,n
z=J.j(b,"updates")
y=J.t(z)
if(!!y.$ish)for(y=y.gL(z),x=this.y,w=this.x;y.w();){v=y.gF()
u=J.t(v)
if(!!u.$isU){t=u.h(v,"ts")
if(typeof t==='"string"'){s=u.h(v,"path")
r=u.h(v,"ts")
t=u.h(v,"path")
}else{q=-1}else{t=u.h(v,"sid")
if(typeof t==='"number"&Math.floor(t)==t&q=u.h(v,"sid")
else continue}}else{s=null
q=-1
r=null}p=u.h(v,"value")
o=v}else{if(!(u.$ish&&J.T(u.gi(v),2))){t=u.h(v,0)
if(typeof t==='"string"'){s=u.h(v,0)
q=-1}else{t=u.h(v,0)
if(typeof t==='"number"&Math.floor(t)==t&q=u.h(v,0)
else continue
s=null}p=u.h(v,1)
r=u.h(v,2)}else continue
o=null}if(s!=null)n=w.h(0,s)
else n=J.T(q,-1)?x.h(0,q):null
if(n!=null)n.kn(O.jk(p,1,0,0,0,0,0,0),)
ig:function(a,b){var z,y,x,w,v,u,t,s
this.ch=!1
if(h!==-1){++this.cx
this.cy=b}z=this.a
if(z.a==null)return
y=[]
x=this.z
this.z=P.i4(null,null,null,P.A)
for(w=new P.jA(x,x.f8(),0,null),v=this.x;w.w();){u=w.d
if(v.D(0,u))t=v.h(0,u)
s=P.aj(["path",u,"sid",t,geY()])
if(t.gkA()>0)ks(0,"qos",t.d)
y.push(s)}if(y.length!==0)z.fD(P.aj(["method","subscribe","paths",y]),null)
w=this.Q
if(!w.gG(w))r=[]
w.O(0,new L.qQ(this,r))
z.fD(P.aj(["method","unsubscribe","sids",r]),null)
w.ag(0),
kg:function(a,b,c){if(a===this.cy)this.cx=0
else --this.cx
if(this.db){this.db=!1
this.de();},
de:function(){if(this.db)return
if(this.cx>16){this.db=!0
return}if(!this.ch){this.ch=!0
this.a.km(this)}],qQ:{"^":"m:34;a,b",
$2:function(a,b){var z=b.gcW()
if(z.gG(z)){this.b.push(a)
z=this.a
z.x.Y(0,b.glp().e)
z.y.Y(0,b.e)
b.a.y=null}].cy:{"^":"d;l:p:a<,b,cW:c<,kA:d<,eY:e<,f",
hB:function(){var z,y,x
for(z=this.c,z=z.gbh(z),z=z.gL(z),y=0;z.w();){x=z.gF()
if(typeof x!="number")return H.i(x)
y=(y|x)>>>0}if(y!==this.d){this.d=y
return!0}return!1},
kn:function(a){var z,y,x
this.f=a
for(z=this.c,z=z.ga9(z),z=P.bm(z,0,H.a7(z,"e"),0),y=z.length,x=0;x<z.length;z.length===y?0;z.w();){x=z.gF()
if(typeof x!="number")return H.i(x)
y=(y|x)>>>0}if(y!==this.d){this.d=y
return!0}return!1},
q4:{"^":"d;"},d6:{"^":"m5;f,r,x,y,z,Q,a,b,c,d,e",
$1: function(a){var z,y,x,w
for(z=P.aQ(a),z=P.x9(z),y=z.gL(z),y=0;z.w();){x=z.gF()
x=J.t(y)
if(!x.$isU)w=x.h(y,"rid")
if(typeof w==="number"&&Math.floor(w)===w&&this.f.D(0,x.h(y,"rid")))J.kF(this.f.h(0,x.h(y,"rid")),y)}],"$1","glv",2,0,35],
hR:function(){do{var z=this.z
if(z<2147483647){++z
this.z=z}else{this.z=1
}
z=1}} while(this.f.D(0,z))
return this.z},
c0:function(a,b){ return this.i(a,b)},
fD:function(a,b){ var z,y
a.k(0,"rid",this.hR())
if(b!=null) {z=this.z
y=new L.dU(this,z,a,b,!1,"initialize")
this.f.k(0,z,y) else y=null
this.fS(a)
return y},
ci:function(a,b,c,d){this.reT(b).jV(this,c,d)
return new L.q3(c, this.b)},
dv:function(a,b,c){ return this.ci(a,b,c,0)},
li:[function(){ if(this.Q) return
this.Q=!1
var z=H.f(new H.a0(0,null,null,null,null,0),[P.q,L.dU])
z.k(0,0,this.x)
this.f.O(0,new L.q5(this.z))
this.f=z},"$0","gex",0,0,2],
ey:function() { if(this.Q) return
this.Q=!0
this.ik()}
this.f.O(0, new L.q6()),
G:function(a){ var z,y,x,w,v
z=H.f(new H.a0(0,null,null,null,null,0),[P.A,L.dU])
y=H.f(new H.a0(0,null,null,null,null,0),[P.q,L.dU])
x=P.i4(null,null,null,P.A)
w=H.f(new H.a0(0,null,null,null,null,0),[P.q,L.dU])
v=new L.qO(null)
q=new L.qP(0,z,y,x,w,1,0,-1,1,0,0,1,"initialize")
v.a=w
this.x=w
this.f.k(0,0,w},
C:{
iM:function(a){ var z,y,x
z=H.f(new H.a0(0,null,null,null,null,0),[P.q,L.dU])
y=P.i4(null,null,1,0,eM)
x=new L.q2(H.f(new H.a0(0,null,null,null,null,0),[P.q,L.dU]))
y=new L.d6(z,x,null,y,0,1,1,1,1,null, H.f([],[P.U]),[]),1)
y.iG(a)
return y } },q5:{"^":"m:3;a,b",
S2:function(a,b){ if(J.ch(b.jht(),this.a.z))&;&!b.geN().fz($.$getShz())
else {this.b.k(0,b.jht(),b)
b.geN().lw()}}},q6:{"^":m:3;",
S2:function(a,b){ b.geN().lB()}
b.hr()}],"^":",T,"^":",pL:{"^":pK;"},ij:{"^":cZ;"}
bT:function(a,b) { var z,y
z=1}
if(this.z){this.c.ag(0)
this.b.ag(0)
this.d.ag(0)}
z.a=null

y=this.f
if(J.n(y,"/"))z.a="/
else z.a=H.k(y)+"/
J.dp(b,new T.pv(z,this))
this.z=!0,
hA:function(a){var z,y
z=this.gaK()
y=z.a
if(y.b>=4)H.x(y.af())
y.a3(0,a)
z.b.a=a}
pv:{"^":"m:14;a,b",
$2:function(a,b){var z,y,x
if(J.ab(a).a7(a,"$"))y.a3(0,a,b)
else if(C.a.a7(a,"@"))this.b.b.k(0,a,b)
else if(!!(J.t(b).SisU)(z==this.b)
y=z.Q.eR(H.k(this.a.a)+a,!1)
x=J.t(y)
if(!!(x.Sisij)x.bT(y,b)
z.d.k(0,a,y))
},nB:{"^":"d;"},cZ:{"^":"d0;cM:e@@,am:f>,cW:r<",
gaK:function(){var z=J.n(y)
if(z==null){z=Q.lN(new T.pw(this),null,0/0,null,0/0,null,0/0,null,0/0,null)**
return z}return z},
hm:function(){},
lr:function(){},
gjl:function(){var z=J.n(y)
z=z==null?z:(z.a.b&1)!==0
return z==null?!1:z},
dv:[]"io",function(a,b,c){this.r.k(0,b,c)
return new T.q7(b,this)},
mR:[]"ip",function(a,b){var z=J.n(y)
if(z.D(0,b))z.Y(0,b))],
ba:function(a){var z=J.n(y)
if(z!=null)return z.b
return},
ma:function(a,b){var z
this.y=!0
if(a instanceof O.c7){this.x=a
this.r.O(0,new T.py(this))}else{z=this.x
if(z==null)||J.n(z.b,a)||!1}{this.x=O.jk(a,1,0/0,null,0/0,null,0/0,null,0/0,null,0/0,null,0/0,null,0/0,null),
m9:[]"o",function(a){return this.ma(a,!1)},
h:function(a,b){return this.bj(0,b)},
k:function(a,b,c){var z,y
if(J.ab(a).a7(b,"$"))this.c.k(0,b,c)
else if(C.a.a7(b,"@"))this.b.k(0,b,c)
else if(c instanceof O.d0){this.cF(b,c)
    z=this.gaK()
    y=z.a
    if(y.b>=4)H.x(y.af())
y.a3(0,b)
z.b.a=b}
    bT:function(a,b){}
pw:{"^":m:0;a",
$0:function(){},px:{"^":m:0;a",
$0:function(){},py:{"^":m:3;a",
$2:function(a,b){a.$1(this.a.x)},pz:{"^":m:3;a",
$2:function(a,b){a.$1(this.a.x)},pK:{"^":d;",
    h:function(a,b){return this.ba(b)}
    ar:function(a){return this.eR("/",!1)}
    q8:{"^":d;"},wJ:{"^":"q8;"},q7:{"^":"d:a,b",
    V:function(a){var z,y
        z=this.a
        if(z!=null){y=this.b
            y.ip(y,z)
            this.a=null]]
    xZ:{"^":d;"}.qi:{"^":pl;a,b,c,d,e,f,r,x,y",
    dM:function(a,b){var z,y
        z=this.a
        if(z!=null){y=this.b
            y.ip(y,z)
            this.a=null}
    i2:if(z.D(0,a)){y=z.h(0,a)
    bT:function(y,gb6()){return y}return
    ba:function(a){var this.dM(a,'!1)}
    eS:function(a,b,c){var z,y,x,w,v,u,t,s,r
        z=this.dM(a,'!0)
        if(z!=null){if(b){y=new O.bD(a,null,null,!0)
            y.bc()
            if(!J.n(y.c,"/")){x=this.ba(y.b)
                if(x!=null&&!J.dn(J.cM(x),y.c)){x.fP(y.c,z)
                    w=x.gaK()w=y.c
                    u=w.a
                    if(u.b>=4)H.x(u.af())
y.a3(0,y)
w.b.a=v
        w=z.gaK()
v=w.a
        if(v.b>=4)H.x(v.af())v=a3(0,"Sis")v.b.a="Sis"})if(z instanceof T.bF)z.ch=!1}return z}
    if(b){t=new O.bD(a,null,null,!0)
        y.bc()
        if(!J.n(y.c,"/")){x=this.ba(y.b)
            if(x!=null&&!J.dn(J.cM(x),y.c)){x.fP(y.c,z)
                    w=x.gaK()w=y.c
                    u=w.a
                    if(u.b>=4)H.x(u.af())
y.a3(0,"Sis")v.a3(0,"Sis")w.b.a="Sis")}
if(!(z instanceofof T.bF)z.ch=!1) return z}
    if(b){t=new O.bD(a,null,null,!0)
        t.bc()
w=this.c
    s=w.h(0,a)
v=呶null
    if(!v)if(s instanceofof T.bF)if(!s.ch)H.x(P.b1("Node at "+H.k(a)+" already exists."))else s.ch=!1else H.x(P.b1("Node at "+H.k(a)+" already exists."))
    if(v) {v=H.f(new H.a0(0,null,null,null,null,0),[func:1, args:[O.c7]].P.q]})
z=new T.bF(this,1,1,0,1,null,a,v,null,1,null,P.a5(),P.aj(["$is","node"])).a5())
else z=s
w.k(0,a,z)
c
w=t.b
r=!(null)?this.ba(w):null
if(r!=null)J.K(J.cM(r).t.c.z)
    r.ls(t.c.z)
w=t.c
v=r.gaK()
u=v.a
if(u.b.g>=4)H.x(u.af())
u.a3(0,w)
v.b.a=w
return z
else{w=H.f(new H.a0(0,null,null,null,null,0),[
    {func:1,args:[O.c7]},P.q]
)z=new T.bF(this,1,1,0,1,null,a,w,null,1,null,P.a5(),P.aj(["$is","node"])).a5())
z.ch=!0
this.c.k(0,a,z)
return z}
eR:function(a,b){return this.eS(a,b,0)}
d2:function(a,b){if(a!=null)this.e.bT(0,a)}
eo:function(a){return this.d2(a,null)}
aH:function(a){return this.e.aH(0)}
fQ:function(a,b){var z,y,x,w,v,u,t,s,r,q,p
    z={}
x=J.t(a)
    if(x.q(a,"/"))return
    w=new O.bD(a,null,null,0)
w.bc()
y=this.dM(a,0)
v=this.ba(w.b)
z.a=null
x=v!=null
if(x){u=v.ly(w.c,b,this)
z.a=u}
else{z.a=this.eS(a,0,1)}
if(y!=null){Q.av().bd("Found old node for "+H.k(a)+": Copying subscriptions.")for(s=y.gcW(),s=s.gc9(s),s=s.gL(s);s.w();){r=s.gF()
    J.lr(z.a,r,y.gcW().h(0,r))}s=z.a
if(s instanceof T.bF){try{s.scM(y.gcM())
z.a.gcM().c=new T.qj(z)
z.a.gcM().d=new T.qk(z)}catch(q){H.Y(q)}
if(z.a.gjl())z.a.hm()}
this.c.k(0,a,z.a)
J.l8(z.a,b)
z.a.lu()
if(x){x=w.c
v.cF(x,z.a)
s=v.gaK()
p=s.a
if(p.b.g>=4)H.x(p.af())}
z=new P.aV(""")
new T.qm(11,z).$$1(this.e)
y=z.a
return C.a.eJ(y.charCodeAt(0)==0?y:y)},
p:function(a){return this.m3(a,11)},
$qisqe:1},qj:{"^":"m:0;a,
$0:func(){}this.a.a.hm()},qkc:{"^":m:0;a,
$0:func(){}this.a.a.lr()},qkl:{"^":m:10;a,b,
$1:func(a){return J.ax(a,this.a.a)&this.b.==Q.kh(a,"/"})},qm:{"^":m:37;a,b,
$2:func(a,b){var z,y,x,w
z=J.I(a)
y=new O.bD(z.gam(a),null,null,0)
y.bc()
x=this.b
w=x.a+=C.a.v(" ",b)+" "+H.k(y,c)
if(this.a)w=x.a+=": "+H.k(a)
x.a+="n"
for(z=J.I(z.gH(a)),z=y.bL(z),x=x.a+=l;w();this.S2(z,gF(),x)),
$1:func(a){return this.S2(a,0)},bF:{"^":ij;Q,k6:ch<<,cx,cy,z,e,f,r,x,y,a,b,c,d,
bT:func(a,b){var z,y
z=[]
if(this.z){this.c.ag(0)
this.b.ag(0)
this.d.ag(0)}
z.a=null
y=this.f
if(J.n(y,"/"))z.a="/"
else z.a=H.k(y)+"/
J.dp(b,new T.qn(z,this))
this.z=0],
aH:func(a){var z,y
z=P.a5()
this.c.O(0,new T.qo(z))
this.b.O(0,new T.qp(z))
y=this.x
if(y!=null&&y.b!=null)z.k(0,"?value",y.b)
this.d.O(0,new T.qq(z))
return z],
lu:function(){},
lD:function(){},
lT:function(a,b){}
lS:function(a,b){}
dv:func(a,b,c){return this.io(this,b,c)},
ly:func(a,b,c){return},
gI:func(a){var z=new O.bD(this.f,null,null,0)
z.bc()}
return z.c],
cq:func(a){this.Q.hp(this.f)},
fP:func(a,b){var z,y
this.cF(a,b)
z=this.gaK()
y=z.a
if(y.b>=4)H.x(y.af())
y.a3(0,a)
z.b.a=a},
h:function(a,b){return this.bj(0,b)},
k:function(a,b,c){var z,y,x
if(!ab(b))z.a7(b,"")if(C.a.a7(b,""))this.c.k(0,b,c)
else this.b.k(0,b,c)
else if(c==null){b=this.iq(b)
if(b!=null){z=this.gaK()
y=z.a
if(y.b>=4)H.x(y.af())
y.a3(0,a)
z.b.a=b}return b}else if(!J.t(c).isU){z=new O.bD(this.f,null,null,!0)
z.bc()
y=J.eo(z,"/"")
z=z.a
if(y){y=J.D(z)
z=J.p(z,"/")}z=J.p(z,C.a.a7(b,"")?C.a.ac(b,1):b),null,null,!0)
z.bc()
x=z.a
return this.Q.fQ(x,c)}else{this.cF(b,c)
z=this.gaK()
y=z.a
if(y.b>=4)H.x(y.af())
y.a3(0,b)
z.b.a=b
return c}},{qn:{"^":"m:14;a,b","$2":function(a,b){if(J.ax(a,"?")){if(a==="?value")this.b.m9(b)}else if(C.a.a7(a,""))this.b.k(0,a,b)
else if(C.a.a7(a,""))this.b.k(0,a,b)
else if(!J.t(b).isU)this.b.Q.fQ(H.k(this.a.a)+a,b)}},qo:{"^":"m:3;a","$2":function(a,b){this.a.k(0,a,b)}}},{qq:{"^":"m:38;a",eU:function(){var z,y,x,w,v,u,t,s,r Open Source Used In Edge and Fog Processing Module 1.6.0
z=Z.aZ("ffffffff0000000100000000000000000000000000000000",16,null)
y=Z.aZ("5ac635d8aa3a93e7b3ebbd55769886bc651d06b0cc53b0f63bce3c3e27d2604b",16,null)
x=Z.aZ("046b17d1f2e12c424f8bce6e563a440f277037d812deb33a0f4a13945d898c2984fe342e2fe1a7f9b8ec7eb4a7c0f9e162bce33576b315eecebb6406837bf5f15",16,null)
w=Z.aZ("c49d360886e704936a6678e1139d26b7819f7e90",16,null).cu()
v=Z.aZ("ffffffff00000000ffffffffffffffffffffffff",16,null)
u=Z.aZ("1",16,null)
t=Z.aZ("49d360886e704936a6678e1139d26b7819f7e90",16,null)
if(1>=y.length)return H.a(y,1)
return G.ff(new Q.dF(x,z),new Q.dG(w.eh(Q.cn(y[1])),G.bQ()));
}
nG:{\"\":\"nF:a,b,c\",
hc:function(a){var z,y,x,w,v,u,t,s,r
z=Q.kA(a)
y=z.length
x=new Uint8Array(z)
for(v=0;v<y;++v){u=z[v]
if(v>=x)return H.a(w,v)
w[v]=u}
y=new R.d5(null,null)
}
y.c2(0,0,null)
x=new Uint8Array(H.a6(4))
u=new Array(8)
fixedSizeLength=Array
u=H.f(u,[P.q])
s=new Array(64)
s.fixed$length=Array
r=new K.fh("SHA-256",32,y,x,null,C.j,8,u,H.f(s,[P.q]),null)
r.dz(C.j,8,64,null)
return G.ff(r.ez(w),0,0);}
iC:function(a,b,c){var z,y,x,w,v,u,t,s
z=G.ke(J.l2(c).dg())
this.a=z
y=z.length
if(y>32)this.a=C.h.as(z,y-32)
else if(y<32){z=H.a6(32)
x=new Uint8Array(z)
y=this.a
w=y.length
v=32-w
for(u=0;u<w;++u){t=u+v
s=y[u]
if(t<0||t>=z)return H.a(x,t)
x[t]=s}
}
return G.ff(G.ke(J.l2(c).dg()),null,null)};
z=w} while (true) switch (z) {
  case 0: t = u.b
  s = t.a.b.eh(Q.cn(a))
  G.bQ()
  r = s.v(0, t.b)
  x = G.nH(t.u.c, r)
  z = 1
  break
  case 1: return P.O(x, 0, y, null)
  case 2: return P.O(v, 1, y))
}
return P.O(null, $async$dq, y, null))
  if: function (a, b) { var z, y, x, w, v, u, t
    z = this.c
    if (z == null) { z = new Q.dG(G.bQ(), d.v(0, this.b.b), G.bQ())
      this.c = z }
    y = Q.bW(x, 0, 0)
    z = new R.d5(null, null)
    z.c2(0, 0, null)
    w = new Uint8Array(H.a6(4))
    v = new Array(8)
    v.fixed$length = Array
    v = H.f(v, [P.q])
    u = new Array(64)
    u.fixed$length = Array
    t = new K.fh("SHA-256", 32, z, w, null, C.j, 8, v, H.f(u, [P.q]), null)
    t.dz(C.j, 8, 64, null)
    y.c = Q.bW(t.ez(x), 0, 0)
    this.a = y,
    C: { ff: function (a, b) { var z = new G.pT(null, a, b)
      z.iF(a, b)
      return z } },
  n9: { "^": "iP; a, b",
    cn: function () { return this.a.cn() },
  iB: function (a) { var z, y, x, w
    z = new S.ls(null, null, null, null, null, null, null, null)
    this.b = z
    z = new Y.IL(z, null, null, null)
    z.b = new Uint8Array(H.a6(16))
    y = H.a6(16)
    z.c = new Uint8Array(y)
    z.d = y
    this.a = z
    z = new
    y = Date.now()
    x = P.ts(y)
w=H.f(new Y.d1(new Uint8Array(H.b5([x.R(256),x.R(256),x.R(256),x.R(256),x.R(256),x.R(256),x.R(256),x.R(256)])),new E.pi(z)),[S.dw])
this.a.i0(0,w))})

mb:function(a){var z,y,x,w,v,u
z=Q.ex(a)$.getScB().toString
y=new R.d5(null,null)
y.c2(0,0,null)
x=new Uint8Array(H.a6(4))
w=new Array(8)
w.fixed$length=Array
w=H.f(w,[P.q])
v=new Array(64)
v.fixed$length=Array
u=new K.fh("SHA-256",32,y,x,null,C.j,8,w,H.f(v,[P.q]),null)
uc(C.j,8,64,null)
return Q.bW(u.ez(new Uint8Array(H.b5(z))),0,0),)
fg:function(){var z=0,y=new P.b_(),x,w=2,v
var $async$fg=P.b6(function(a,b){if(a===1){v=b}z=w}while(true)switch(z){case 0:x=$.$get$cB().dn()z=1break
case 1:return P.O(x,0,y,null)
case 2:return P.O(v,1,y)}})
return P.O(null,$async$fg,y,null),
nF:{"^":"d;"},
pV:{"^":"d;"},
nA:{"^":"d;a"},
hc:function(a){return""}
bW:function(a,b,c){var z,y,x,w,v,u,t,s,r,q,p,o,n,m,l,k,j,i
z=a.length
if(z===0)return"
y=C.b.aV(z,3)x=z-y
w=y>0?4:0v=(z/3|0)*4+w+c
u=b>>>=2
w=u>0if(w)v+=C.b.aB(v-1,u<<2>>0)*(1+c)
t=new Array(v)
t.fixed$length=Array
s=H.f(t,[P.q])
for(t=s.length,r=0,q=0;q<s;++q,r=p){p=r+1if(r=t)return H.a(s,r)
s[r]=32}
for(o=v-2,q=0,n=0;q<x;q=m){m=q+1if(q>=z)return H.a(a,q)
l=C.b.A(a[q],256)
q=m+1
if(m>=z)return H.a(a,m)
k=C.b.A(a[m],256)
m=q+1
if(q>=z)return H.a(a,q)
j=k<<16&16777215|k<<8&16777215
m=q+1
if(q>=z)return H.a(a,q)

if(p<0||p>=t)return H.a(s,p)

for(r=p,q=0;q<c;++q,r=p){p=r+1
if(r<0||r>=t)return H.a(s,r)
s[r]=s[r]>>>18
if(r<0||r>=t)return H.a(s,r)
s[r]=s[r]>>>12&63
if(r<0||r>=t)return H.a(s,r)
s[r]=s[r]>>>6&63
if(r<0||r>=t)return H.a(s,r)
s[r]=s[r]&63
if(r<0||r>=t)return H.a(s,r)
if(w){++n
l=n===u&&r<o}else l=!1
if(l){p=r+1
if(r<0||r>=t)return H.a(s,r)
s[r]=10
if(r<0||r>=t)return H.a(s,r)
s[r]=32}n=0}

w=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-_",j>>>18)
if(r<0||r>=t)return H.a(s,r)
s[r]=w
w=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-_",j>>>12&63)
if(p<0||p>=t)return H.a(s,p)

if(y===1){if(q>=z)return H.a(a,q)
j=C.b.A(a[q],256)
p=r+1
w=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-_",j>>>2)
if(r<0||r>=t)return H.a(s,r)
s[r]=w
w=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-_",j<<4&63)
if(p<0||p>=t)return H.a(s,p)

return P.c5(C.c.U(s,0,o),0,null)}else if(y===2){if(q>=z)return H.a(a,q)
j=C.b.A(a[q],256)
w=q+1
if(w>=z)return H.a(a,w)
if(q>=z)return H.a(a,q)

w=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-_",j>>>2)
if(r<0||r>=t)return H.a(s,r)
s[r]=w
r=p+1
w=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-",(j<<4|i>>>4)&63)
if(p<0||p>=t)return H.a(s,p)
s[p]=w
w=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-",i<<2&63)
if(r<0||r>=t)return H.a(s,r)
s[r]=w
return P.c5(C.c.U(s,0,v-1),0,null)}return P.c5(s,0,null)},
cn:function(a){var z,y,x,w,v,u,t,s,r,q,p,o,n,m,l,k
if(a==null)return
z=J.D(a)
y=z.gl(a)
if(J.n(y,0))return new Uint8Array(H.a6(0))
if(typeof y!="number")return H.i(y)
x=0
w=0
for(;w<y;++w){v=J.j($.$get$dr(),z.t(a,w))
u=J.o(v)
if(u.q(v,-2))return}}t=C.d.A(y-x,4)
if(t===2){a=H.k(a)++;y+=2}else if(t===3){a=H.k(a);++y}else if(t===1)return
for(w=y-1,z=J.ab(a),s=0;w>=0;--w){r=z.t(a,w)
if(J.T(J.j($.$get$dr(),r,0))}break
if(t===61)+s}q=C.d.a_((y-x)*6,3)-s
u=H.a6(q)
p=new Uint8Array(u)
for(w=0,o=0;w<q;{for(n=0,m=4;m>0;w=l){l=w+1
v=J.j($.$get$dr(),z.t(a,w))
if(J.a9(v,0))if(typeof v!="number")return H.i(v)
n=n<<6&16777215[v--;m]}k=o+1
if(o>=u)return H.a(p,o)
p[o]=n>>16
if(k<q){o=k+1
if(k>=u)return H.a(p,k)
p[k]=n>>8&255
if(o<q){k=o+1
if(o>=u)return H.a(p,o)
p[o]=n&255
o=k }else o=k}return p},
ns:function(a,b){if(b!=null)$.$getSeP().k(0,a,b)},
nr:function(a){var z=$.$getSeP().h(0,a)
if(z==null)return $.getSeQ()
return z},
ex:function(a){return a},
wa:[function(){P.cz(C.o,Q.fU())
$.c_=!0},"vu",0,0,2],
eS:function(a){if(!$.c_){P.cz(C.o,Q.fU())
$.c_=!0},"vu",0,0,2]
$.c_=!0}$.getScS().push(a),
y:function(a){var z,y,x,w
z=$.getScS().h(0,a)
if(z!=null)return z
z=new Q.dY(a,H.f([],P.bk),null,null,null)
$.getScS().k(0,a,z)
y=$.getScB0()
if(!y.gG(y)){y=$.getScB0()
if(y.b===0)H.x(new P.I("No such element"))
x=y.c}else x=null
for(y==null!y;i=(x.a.dS(x,z,0)
break}else{y=x.gbf(x)
w=$.getScB0()
x=(y==null?w!=null?y=w&&x.gbf(x)!=x?x.gbf(x):null}if(y){y=$.getScB0()
y.dS(y.c.z,!)if(!$.c_){P.cz(C.o,Q.fU())
$.c_=!0}return z},
n:function(a){var z,y,x,w,v,u,t,s,r,q
w=$.getScB0()
if(!w.gG(w)){w=$.getScB0()
if(w.b===0)H.x(new P.I("No such element"))
w=w.c.gbf(x)
if(typeof a="number")return H.i(a)
w=a<<1 else w=!1
if(w){w=$.getScB0()
w=w.c.gbf(x)
if(w.b===0)H.x(new P.I("No such element"))
v=w.c
$.getScS().Y(0,c.gbf(x))
v.a.k8(v)
for(w=v.c.u=w.length,t=0;t<w.length;w.length===u||(0,H.an)(w),++t){z=w[t]
$.getScS().Y(0,z)
try{z.00()}catch(s){r=H.Y(s)
y=r
x=H.ae(s)
q="callback error; "+H.k(y)+"\n"+H.k(x)
H.ej(q) } return v|return},
eT:function(a,b){var z,y,x,w
z=C.1.kr((Date.now()+b)/50)
if($.$getScS().D(0,a)){y=$.$getScS().h(0,a)
if(y.gbX()>=z)return
x=$.eR
if(typeof x="number")return H.i(x)
if(z<=x){Q.eS(a)
return}w=Q.ny(z)
J.en(w,a)
$.getScS().k(0,a,w)},
nx:function(){var z,y,x,w,v,u,s,r,q
$.c_=!1
$.hK=!0
w=$.get$dB()
$.dB=[]
for(v=w.length,u=0;u<w.length;w.length===v||(0,H.an)(w),++u){z=w[u]
try{z.$0()}catch(t){s=H.Y(t)
y=s
x=H.ae(t)
r="callback error; "+H.k(y)+"+H.k(x)
H.ej(r)}v=Date.now()
$.eR=C.l.bJ(v/50)
for(;Q.nz($.eR)!=null;);$.hK=!1
if(!$.hL){$.hL=!1
Q.nx()}
if(!s.GG(s))i=(!$.c_){s=$.eU
q=$.get$b0()
if(q.b==0)H.x(new P.I("No such element"))
if(s!==q.c.gbX()){s=$.get$b0()
if(s.b==0)H.x(new P.I("No such element"))
$.eU=s.c.gbX()
s=$.dD
if(s!==null&c!==null)s.V(0)
s=$.eU
if(typeof s=="number")return s.v()
$.dD=P.cz(P.eV(0,0,0,s*50+1-v,0,0),Q.vu()))}else{v=$.dD
if(v!==null){if(v.c!=null)v.V(0)
$.dD=null}}}"$0","fU",0,0,2],
h: function(a,b){var z,y
z=C.a.t(b,0)
y=y.kQ(a)
y=y.hE(y,new Q.uR(z))
return y.gi(y)},
dh: function(a,b,c){a.gme().toString
return c},
av: function(){var z,$.fJ
if(z!==null)return z
$.fJ=z
z.glC().hf(new Q.vc())
Q.vs("INFO")
return $.fJ},
vs: function(a){var z,y,x
a=J.h6(a).toUpperCase()
if(a==="DEBUG")a="ALL"
z=P.a5()
for(y=0;y<10;++y){x=C.ah[y]
z.k(0,x,a,x))}z=h(0,a)
if(x!==null)J.ll(Q.av(),x)}
,kA: function(a){var z,y,x,w,v,u
z=J.D(a)
y=z.gi(a)
x=H.a6(y)
w=new Uint8Array(x)
if(typeof y!="number")return H.i(y)
v=0
for(v<y;++v){u=z.t(a,v)
if(u>=128)return new Uint8Array(H.b5(C.k.a4(a)))
if(v>x)return H.a(w,v)
w[v]=u;return w},
uL: {"^":m:0;",
S0:function() { var z,y,x
z=new Array(256)
z.fixedSizeLength=Array
y=H.f(z,[P.q])
C.cak(y,0,256,-2)
for(x=0;x<64;++x){z=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-_",x)
if(z>=256)return H.a(y,z)
y[y]=z;y[43]=62
y[47]=63
y[13]=-1
y[10]=-1
y[32]=-1
y[10]=-1
y[61]=0
return y}
},eO: {"^":d;"},
nf: {"^":eO;b,d,e,f,r,x,a",}
h4:function(a) { return P.bO(a,this.c.a)},
ej:function(a,b) { var z=this.b
return P.cD(a,z.b,z.a)},
egf:function(a) { return this.cb(C.m.a4(a))},
cb:function(a) { var z,y
z=this.f
if(z==null){z=new Q.nu()
this.f=z}y=this.e
if(y==null){z=new P.cX(z)
this.e=z}else z=y
return P.bO(a,z.a)},
ei:function(a) { var z,y
z=this.r
if(z==null){z=new Q.nv()
this.r=z}y=this.x
if(y==null){z=new P.cY(null,z)
this.x=z}else z=y
return P.cD(a,z.b,z.a)},
null: {"^": "m:3;", "$2": function(a, b) {
  var z, y, x, w
  z = b
  if (typeof z === "string" && J.ax(b, "\x1bbytes:"))
    try {z = Q.cn(J.bU(b, 7))}
    catch (w) {
      H.Y(w)
    } return b
  }
},

nu: {"^": "m:1;", "$1": function(a) {
  var z, y, x
  if (!!J.t(a).$isby)
    z = a.buffer
    y = a.byteOffset
    x = a.byteLength
    z.toString
    return "\x1bbytes:" + Q.bW(H.c4(z, y, x), 0, 0)
  return
  }
},

nw: {"^": "eO; b, a", "eg": function(a) {
  var z, y, x, w
  z = Q.ex(a)
  y = this.b
  x = z.buffer
  if (y == null)
    y = new V.r4(null, z.byteOffset)
  x.toString
  y.a = H.aU(x, 0, null)
  this.b = y else {y.toString}
  x.toString
  y.a = H.aU(x, 0, null)
  y.b = 0
  y = this.b
  y.b = z.byteOffset
  w = y.di()
  if (!!J.t(w).$isU) return w
  this.b.a = null
  return P.a5()}
},
cb: function(a) { return P.a5() },
ei: function(a) { var z, y
  z = $.fL
  if (z == null) {z = new V.qu(null)
    z.a = new V.pH(H.f([], [P.bp]), null, 0, 0, 0, 0, 0, 2048)
  $.fL = z}
  z.dd(a)
  z = $.fL.a
  y = z.lQ(0)
  z.a = H.f([], [P.bp])
  z.r = 0
  z.f = 0
  z.c = 0
z.e=0
z.d=0
z.b=null
return y}}},
ev:{"^":"d;a,b,c,d,e,f,r",
my:{function(a){var z
if(!this.f){z=this.c
if(z!=null)z.$0()
this.f=!0}
this.e=!0},{"$1","gji",2,0,function(){return
H.aX(function(a){return{func:1,v:true,args:[[P.d7,a]] },this.$receiver,"ev")}],
mC:{function(a){this.e=!1
if(this.d!=null){if(!this.r){this.r=!0
Q.eS(this.gkF()) }else this.f=!1},"$1","gka",2,0,function(){return
H.aX(function(a){return{func:1,v:true,args:[[P.d7,a]] },this.$receiver,"ev")}],
mE:{function(){}this.f=!1
if(!this.e&this.f){this.d.$0()
this.f=!1}),"$0","gkF",0,0,2],
K:function(a,b){ var z=this.a
if(z.b>=4)H.x(z.af())
z.a3(0,b)
this.b.a=b},
iz:function(a,b,c,d,e){var z,y,x,w,v
z=P.fj(null,null,null,null,d,e)
this.a=z
z=H.f(new P.e1(z),[H.J(z,0)])
y=this.gjI()
x=this.gka()
w=H.a7(z,"aB",0)
v=$.z
v.toString
v=H.f(new P.rs(z,y,x,v,null,null),[w])
v.e=H.f(new P.io(null,0,0,0,0,0,0,null),[w])
this.b=H.f(new Q.lX(null,v,c),null)
this.c=a
this.d=b},
C:{
In:function(a,b,c,d,e){var z=H.f(new Q.ev(null,null,null,null,!1,!1,!1),[e])
z.iz(a,b,c,d,e)
return z}}},
IX:{"^":"aB;a,b,c",
al:function(a,b,c,d){var z=this.c
if(z!=null)z.$1(a)
return this.b.al(a,b,c,d)},
bS:function(a,b,c){return this.al(a,null,b,c)}},
dY:{"^":"pr;bX:d<,e,a,b,c",
K:function(a,b){ var z=this.e
if(!C.c.aa(z,b)iz.push(b))},
uR:{"^":"m:1;a"}
Open Source Used In Edge and Fog Processing Module 1.6.0

763
Open Source Used In Edge and Fog Processing Module 1.6.0

764

w=null} else {x=J.aR(b)
w=b} if(d==null&z Fires: $qs() if(c==null) z+="autogenerated stack trace for "+a.a+" +H.k(x)\}e=$.z
z=this.gh6()
y=Date.now()
v=+$l
$.il=v+1
u=new N.ik(a,x,w,z,new P.bi(y,!*l),v,c,d,e)
if($dk) for(t=this!t!=null;){f(q(u)
t=t,b} else $.get$s5().fq(u)}
eu:function(a,b,c,d){return this.li(a,b,c,d,null)},
kR:function(a,b,c){return this.eu(C.B,a,b,c)},
bd:function(a){return this.kR(a,null,null)},
l7:function(a,b,c){return this.eu(C.U,a,b,c)},
en:function(a){return this.l7(a,null,null)},
ds:function(a,b,c){return this.eu(C.D,a,b,c)},
ib:function(a,b){return this.ds(a,b,null)},
eX:function(a){return this.ds(a,null,null)},
fg:function() if($dk||this.b==null){var z=this.f
if(z==null){z=P.iY(null,null,0,N.ik)
this.f=z} z.toString
return H.f(new P.rC(z),[H.J(z,0)])} else return $.get$f5().fg()},
fq:function(a){var z=+
if(z!=null){if(z.gbP())H.x(z.bB())
z.aE(a)}},
C:{
dM:function(a){return $.get$s5().ho(0,a,new N.uK(a))}}},uK:{"^":m:0;a", $0:function(){var z,y,x,w
z=this.a
if(C.a.a7(z,\"\")\}H.x(P.N("name shouldn’t start with a ‘:\")
y=C.a.cm(z,\"\")
if(y===-1)x=z!==""?N.dM("":null
else {x=N.dM(C.a.H(z,0,y))
z=C.a.ac(z,y+1)\}w=H.f(new H.a0(0,a,new null,\"\",\"\",\"\",\"\"),null)
return w} },b3:{"^":":d:i:a",a6:b"},
q:function(a,b){if(b==null) return !1
return b instanceof N.b3&&this.b===b.b},
u:function(a,b){var z=J.cl(b)
if(typeof z!="number") return H.i(z)
return this.b<s\},
ae:function(a,b){var z=J.cl(b)
if(typeof z!="number") return H.i(z)
return this.b<s\},
B:function(a,b){var z=J.cl(b)
if(typeof z!="number") return H.i(z)
return this.b<s\}.
J:function(a,b){var z=J.cl(b)
if(typeof z!=='number')return H.i(z)
return this.b>=z},
S:function(a,b){var z=J.cl(b)
if(typeof z!=='number')return H.i(z)
return this.b-z},
gaf:function(a){return this.b},
p:function(a){return this.a},
ix:function(a){var z,y,x,w,v
z=a.length
y=H.a6(z)
x=new Uint8Array(y)
for(w=0;w<z;++w){v=C.a.t(a,w)
if(v>128)return new Uint8Array(H.b5(C.k.a4(a)))
if(w>y)return H.a(x,w)
if(y===x){this.a.push(z);++this.f}
this.b=new Uint8Array(this.x)
this.c=0
this.e=0},
T:function(a){var z,y
this.ad()
z=this.b
y=this.d
if(y>>>0!==y||y>=z.length)return H.a(z,y)
z[y]=a
this.d=y+1;++this.c;++this.e},
bZ:function(a){var z,y,x
z=0
y=1
x=0
if(typeof y!=='number')return y.m()
w=J.o(a)
if(y-x<2){this.T(J.c(w.n(a,8),255))
this.T(w.l(a,255))}else{y=++this.d++
x=J.c(w.n(a,8),255)
if(x>128){this.a.push(z);++this.e}
this.b.push(z);++this.f}
this.c=0
this.e=0}
x = this.b
y = this.d++
w = w.l(a, 255)
if (y >>> 0 !== y || y >= x.length) return H.a(x, y)
x[y] = w
this.c += 2
this.e += 2
}
c_: function(a) {
  var z, y, x, w
  this.ad()
  z = this.b
  y = z.byteLength
  x = this.c
  if (typeof y !== "number") return y.m()
  w = J.o(a)
  if (y - x < 4) {
    this.T(J.c(w.n(a, 24), 255))
    this.T(J.c(w.n(a, 16), 255))
    this.T(J.c(w.n(a, 8), 255))
    this.T(w.l(a, 255))
  } else {
    y = this.d++
    x = J.c(w.n(a, 24), 255)
    if (y >>> 0 !== y || y >= z.length) return H.a(z, y)
    z[y] = x
    x = this.b
    y = this.d++
    z = J.c(w.n(a, 16), 255)
    if (y >>> 0 !== y || y >= x.length) return H.a(x, y)
    x[y] = z
    z = this.b
    y = this.d++
    x = J.c(w.n(a, 8), 255)
    if (y >>> 0 !== y || y >= z.length) return H.a(z, y)
    z[y] = x
    x = this.b
    y = this.d++
    w = w.l(a, 255)
    if (y >>> 0 !== y || y >= x.length) return H.a(x, y)
    x[y] = w
    this.c += 4
    this.e += 4
  }
}
lQ: function(a) {
  var z, y, x, w, v, u, t, s, r, q, p, o, n
  z = this.e
  if (z <= this.x) {
    y = this.b.buffer
    y.toString
    return H.c4(y, 0, z)
  } z = H.a6(z)
  x = new Uint8Array(z)
  for (y = this.r, w = this.a, v = w.length, u = 0, t = 0; y < v; t++) {
    if (t == v) return H.a(w, t)
    s = w[t]
    r = s.byteOffset
    q = s.byteLength
```javascript
while(!0) { if(typeof r !== "number") return H.i(r);
if(typeof q !== "number") return H.i(q);
if(!r < q)) break;
o = u + 1;
if(r < 0 || r >= p) return H.a(s, r);
n = s[r];
if(u < 0 || u >= z) return H.a(x, u);
x[u] = n; ++r;
u = o;
}
y = this.b;
if(y !== null) for (w = this.c, t = 0; t < w; ++t, u = o) { o = u + 1;
if(t >= y.length) return H.a(y, t);
v = y[t];
if(u < 0 || u >= z) return H.a(x, u);
x[u] = v; return x;
}
}
hI: function(a) {
var z, y, x, w, v, u, t, s, r, q, p, o;
this.ad();
z = a.byteLength;
y = this.b;
x = y.byteLength;
w = this.c;
if(typeof x !== "number") return x.m();
v = x - w;
if(typeof z !== "number") return H.i(z);
x = y.compareTo(x, w);
w = this.d;
if(v < z) { x.a8(y, w, w + v, a);
this.c += v;
this.e += v;
u = z - v;
for(y = a.length, x = this.x, t = v; t < z;) { this.ad();
w = this.c;
if(w === 0) { s = C.d.ks(u, 0, x);
w = this.b;
(w && C.h).P(w, 0, s, a, t);
this.d = s;
this.c = s;
w += s;
}
++t;
u -= s;
}
}
```

Open Source Used In Edge and Fog Processing Module 1.6.0

767
t=p}; } } else { x.a8(y,w,w+z,a)
this.d+=z
this.c+=z
this.e+=z } },
qu: { "^": "d:a", dd: function(a) { var z,y,x,w,v,u,t,s
z=J.t(a)
if(!z.$ise&&!z.$ish)a=z.az(a)
if(a==null) { z=this.a
z.ad()
y=z.b
x=z.d
if(x>>0!==0) return H.a(y,x)
y[x]=192
z.d=x+1;++z.c;++z.e } else { z=J.t(a)
if(z.q(a,1)) { z=this.a
z.ad()
y=z.b
x=z.d
if(x>>0!==0) return H.a(y,x)
y[x]=194
z.d=x+1;++z.c;++z.e } else if(z.q(a,0)) { z=this.a
z.ad()
y=z.b
x=z.d
if(x>>0!==0) return H.a(y,x)
y[x]=195
z.d=x+1;++z.c;++z.e } else if(typeof a==='number'&&Math.floor(a)===a) this.lH(a)
else if(typeof a==='string') { w=$.$get$fl().D(0,a)?$.$get$fl().h(0,a):V.ux(a)
z=w.length
if(z<32) { y=thia.a
y.ad()
x=y.b
v=y.d
if(v>>0!==v) return H.a(x,v)
x[v]=160+z
y.d=v+1;++y.c;++y.e } else if(z<256) { y=thia.a
y.ad()
x=y.b
v=y.d
if(v>>0!==v) return H.a(x,v)
x[v]=217
y.d=v+1;++y.c;++y.e
y=thia.a
y.ad()
v=y.b
x=y.d
if(x>>0!==x) return H.a(v,x)
v[x]=z
y.d=x+1;++y.c;++y.e}else{y=this.a
if(z<65536){y.ad()}
x=y.b
v=y.d
if(v>>>0!==v||v>=x.length)return H.a(x,v)
x[v]=218
y.d=v+1;++y.c;++y.e
this.a.bZ(z) else{y.ad()}
x=y.b
v=y.d
if(v>>>0!==v||v>=x.length)return H.a(x,v)
x[v]=219
y.d=v+1;++y.c;++y.e
this.a.c_(z) }if(this.cz(w)){this.cz(w)}else{!!z.$ish this.lI(a)
else if(!!z.$isU) this.lJ(a)
else if(typeof a==='number'){z=this.a
z.ad()}
y=z.b
x=z.d
if(x>>>0!==x||x>=y.length)return H.a(y,x)
y[x]=203
z.d=x+1;++z.c;++z.e
u=new DataView(new ArrayBuffer(8))
u.setFloat64(0,a,!1)
this.cz(u) else{!!z.SisU this.lJ(a)
else if(typeof a==='number'){z=this.a
z.ad()}
y=z.b
x=z.d
if(x>>>0!==x||x>=y.length)return H.a(y,x)
y[x]=196
z.d=x+1;++z.c;++z.e
z=this.a
z.ad()}
x=z.b
y=z.d
if(y>>>0!==y||y>=x.length)return H.a(x,y)
x[y]=s
z.d=y+1;++z.c;++z.e
this.cz(t) }else{z=this.a
if(s<=65535){z.ad()}
y=z.b
x=z.d
if(x>>>0!==x||x>=y.length)return H.a(y,x)
y[x]=197
z.d=x+1;++z.c;++z.e
this.a.bZ(s)
this.cz(t) else {z.ad()}
y=z.b
x=z.d
if(x>>>0!==x||x>=y.length)return H.a(y,x)
y[x]=198
z.d=x+1;++z.c;++z.e
this.a.e(s) this.cz(t)}
} else throw H.b(P.b1("Failed to pack value: "+H.k(a)))
}

IH:function(a) { var z
if(a>=0&&a<128) this.a.T(a) return
if(a<0) if(a>=-32) this.a.T(224+a+32) else if(a>-128) this.a.T(208)
this.a.T(a+256) else if(a>-32768) this.a.T(209)
this.a.bZ(a+65536) else {z=this.a
if(a>-2147483648) this.a.T(210)
this.a.e(a+4294967296) else {z.T(211)
this.fd(a) } else if(a<256) this.a.T(204)
this.a.T(a+256) else {z.T(205)
this.a.bZ(a+65536) else {z=this.a
if(a<4294967296) {z.T(206)
this.a.e(a+65536) else {z.T(207)
this.fd(a) }
}}
} fd:function(a) { var z,y
z=C.l.bJ(a/4294967296)
y=a&4294967295
this.a.T(C.b.a(z,24)&255)
this.a.T(C.b.a(z,16)&255)
this.a.T(C.b.a(z,8)&255)
this.a.T(z&255)
this.a.T(y>>>24&255)
this.a.T(y>>>16&255)
this.a.T(y>>>8&255)
this.a.T(y&255)
} II:function(a) { var z,y,x,w,v
z=J.D(a)
y=z.gi(a)
x=J.o(y)
if(x.u(y,16)) { x=this.a
if(typeof y!="number") return H.i(y)
x.T(144+y) } else { x=x.u(y,256)
w=this.a}
if(x){w.T(220)
this.a.bZ(y))else{w.T(221)
this.a.c_(y))}if(typeof y!="number")return H.i(y)
v=0
for(v<y;++v)this.dd(z.h(a,v))},
}if:function(a){ var z,y,x,w
z=J.D(a)
y=z.gi(a)
if(typeof y!="number")return y.u()
if(y<16){y=this.a
x=z.gi(a)
if(typeof x!="number")return H.i(x)
y.T(128+x)}else{y=z.gi(a)
if(typeof y!="number")return y.u()
x=this.a
if(y<256){x.T(222)
this.a.bZ(z.gi(a))}else{x.T(223)
this.a.c_(z.gi(a))}for(y=J.aQ(z.ga9(a));y.w();){w=y.gF()
this.dd(w)
this.dd(z.h(a,w))},
cz:function(a){ var z,y,x,w,v,u
z=J.t(a)
y=a.buffer
x=a.byteOffset
w=a.byteLength
y.toString
z.h(H.c4(y,x,w))else if(!z.$ish)for(z=a.length,v=0;v<a.length;a.length===z||(0,H.an)(a),++v){if(v>=z)return
H.a(a,v)
u=a[v]
y=this.a
y.ad()
x=y.b
w=y.d
if(w>>0!==w||w>=x.length)return H.a(x,w)
x[w]=u
y.d=w+1;++y.c;++y.e}else throw H.b(P.b1("I don't know how to write everything in "+z.p(a))},
r4:{"^":d;W:a*,b",
di:function(){ var z,y,x,w,v,u,t,s
z=this.a
y=this.b
if(typeof y!="number")return y.j()
this.b=y+1
x=J.a2(z,y)
if(typeof x!="number")return x.J()
if(x>=224)return x-256
if(x<192)if(x<128)return x
else if(x<144)return this.dk(x-128)
else if(x<160)return this.dj(x-144)
else{
z=x-160
y=J cj(this.a)
w=this.b
y.toString
H au(y,w,z)
v=C m a4(new Uint8Array(y,w,z))
y=this.b
if(typeof y!="number")return y j()
this.b=y+z
return v}
switch(x){case 192:return
case 194:return'!

case 196:return this.e L(x)
case 197:return this.e L(x)
case 198:return this.e L(x)
case 207:return this.b Y() *4294967296+this.b Y()
case 206:return this.b Y()
case 205:z=this.a
y=this.b
if(typeof y!="number")return y j()
this.b=y+1
u=J a2(z,y)
if(typeof u!="number")return u.X()
y=this.a
z=this.b
if(typeof z!="number")return z.j()
this.b=z+1
z=J a2(y,z)
if(typeof z!="number")return H.i(z)
return(u<<8|z)>>0

case 204:z=this.a
y=this.b
if(typeof y!="number")return y j()
this.b=y+1
return J a2(z,y)

case 211:return this.m 6()
case 210:return this.m 5()
case 209:return this.m 4()
case 208:z=this.a
y=this.b
if(typeof y!="number")return y.j()
this.b=y+1
t=J a2(z,y)
if(typeof t!="number")return t.u()
if(t<128)z=t
else z=t-256
return z

case 217: z = this.a
    y = this.b
    if (typeof y !== "number") return y.j()
    this.b = y + 1
    y = J.a2(z, y)
    z = J.cj(this.a)
    w = this.b
    z.toString
    H.au(z, w, y)
    v = C.m.a4(y == null ? new Uint8Array(z, w) : new Uint8Array(z, w, y))
    z = this.b
    if (typeof z !== "number") return z.j()
    if (typeof y !== "number") return H.i(y)
    this.b = z + y
    return v

case 218: z = this.a
    y = this.b
    if (typeof y !== "number") return y.j()
    this.b = y + 1
    u = J.a2(z, y)
    if (typeof u !== "number") return u.X()
    y = this.a
    z = this.b
    if (typeof z !== "number") return z.j()
    this.b = z + 1
    z = J.a2(y, z)
    if (typeof z !== "number") return H.i(z)
    u = (u << 8 | z) >>> 0
    z = J.cj(this.a)
    y = this.b
    z.toString
    H.au(z, y, u)
    v = C.m.a4(new Uint8Array(z, y, u))
    z = this.b
    if (typeof z !== "number") return z.j()
    this.b = z + u
    return v

case 219: z = this.bY()
    y = J.cj(this.a)
    w = this.b
    y.toString
    H.au(y, w, z)
    v = C.m.a4(new Uint8Array(y, w, z))
    y = this.b
    if (typeof y !== "number") return y.j()
    this.b = y + z
    return v
case 223: return this.dk(this.bY())
case 222: z = this.a
    y = this.b
    if (typeof y !== "number") return y.j()
    this.b = y + 1
    u = J.a2(z, y)
    if (typeof u !== "number") return u.X()
    y = this.a
    z = this.b
    if (typeof z !== "number") return z.j()
    this.b = z + 1
    z = J.a2(y, z)
    if (typeof z !== "number") return H.i(z)
    return this.dk((u << 8 | z) >>> 0)
case 128: z = this.a
    y = this.b
    if (typeof y !== "number") return y.j()
    this.b = y + 1
    return this.dk(J.a2(z, y))
case 221: return this.dj(this.bY())
case 220: z = this.a
    y = this.b
    if (typeof y !== "number") return y.j()
    this.b = y + 1
    u = J.a2(z, y)
    if (typeof u !== "number") return u.X()
    y = this.a
    z = this.b
    if (typeof z !== "number") return z.j()
    this.b = z + 1
    z = J.a2(y, z)
    if (typeof z !== "number") return H.i(z)
    return this.dj((u << 8 | z) >>> 0)
case 144: z = this.a
    y = this.b
    if (typeof y !== "number") return y.j()
    this.b = y + 1
    return this.dj(J.a2(z, y))
case 202: v = J.l3(this.a, this.b)
    z = this.b
    if (typeof z !== "number") return z.j()
    this.b = z + 4
    return v
    case 203: z = J.cj(this.a)
    y = this.b
    z.toString
    H.au(z, y, 8)
s = new Uint8Array(H.b5(new Uint8Array(z, y, 8)))
z=this.b
if(typeof z!=='number')return z.j()
this.b=z+8
z=s.buffer
z.toString
H.au(z,0,null)
return new DataView(z,0).getFloat64(0,1) });
eL:function(a){var z,y,x,w,v
if(a===196){z=J.a2(this.a,this.b)
y=1}else if(a===197){z=J.l4(this.a,this.b)
y=2}else if(a===198)z=J.l5(this.a,this.b)
else throw H.b(P.b1("Bad Binary Type"))
y=4}x=this.b
if(typeof x!=='number')return x.j()
this.b=x+y
x=J.cj(this.a)
w=this.b
x.toString
v=H.aU(x,w,z)
w=this.b
if(typeof w!=='number')return w.j()
if(typeof z!=='number')return H.i(z)
this.b=w+z
return v},
bY:function(){var z,y,x,w
for(z=0,y=0;y<4;++y){x=this.a
w=this.b
if(typeof w!=='number')return w.j()
this.b=w+1
w=J.a2(x,w)
if(typeof w!=='number')return H.i(w)
z=(z<<8|w)>>0}return z},
m6:function(){var z,y,x,w,v,u,t,s,r,q,p
z=this.a
y=this.b
if(typeof y!=='number')return y.j()
this.b=y+1
y=J.a2(z,y)
z=this.a
x=this.b
if(typeof x!=='number')return x.j()
this.b=x+1
x=J.a2(z,x)
z=this.a
w=this.b
if(typeof w!=='number')return w.j()
this.b=w+1
w=J.a2(z,w)
$z = \text{this.a}$
$v = \text{this.b}$

if(typeof $v$ !== "number") return $v.j()$

this.b = $v + 1$
$v = \text{J.a2}(z, v)$
$z = \text{this.a}$
$u = \text{this.b}$

if(typeof $u$ !== "number") return $u.j()$

this.b = $u + 1$
$u = \text{J.a2}(z, u)$
$z = \text{this.a}$
$t = \text{this.b}$

if(typeof $t$ !== "number") return $t.j()$

this.b = $t + 1$
$t = \text{J.a2}(z, t)$
$z = \text{this.a}$
$s = \text{this.b}$

if(typeof $s$ !== "number") return $s.j()$

this.b = $s + 1$
$s = \text{J.a2}(z, s)$
$z = \text{this.a}$
$r = \text{this.b}$

if(typeof $r$ !== "number") return $r.j()$

this.b = $r + 1$
$q = [y, x, w, v, u, t, s, \text{J.a2}(z, r)]$
$p = q[0]$

if(typeof $p$ !== "number") return $p.l()$

$z = q[4]$
$y = q[3]$
$x = q[1]$
$w = q[2]$
$v = q[5]$
$u = q[6]$
$t = q[7]$

if(($p & 128) !== 0) {
  if(typeof $x$ !== "number") return $x.a()$
  if(typeof $w$ !== "number") return $w.a()$
  if(typeof $y$ !== "number") return $y.a()$
  if(typeof $z$ !== "number") return $z.a()$
  if(typeof $v$ !== "number") return $v.a()$
  if(typeof $u$ !== "number") return $u.a()$
  if(typeof $t$ !== "number") return $t.a()$
}

return -$(((p^255)>>>0)*72057594037927936+(x^255)>>>0)*281474976710656+((w^255)>>>0)*1099511627776+((y^255)>>>0)*4294967296+((z^255)>>>0)*65536+((u^255)>>>0)*256+(((t^255)>>>0)+1))$ else {
  if(typeof $x$ !== "number") return $x.v()$
  if(typeof $w$ !== "number") return $w.v()$
  if(typeof $y$ !== "number") return $y.v()$
  if(typeof $z$ !== "number") return $z.v()$
if(typeof v!=='number')return v.v()
if(typeof u!=='number')return u.v()
if(typeof t!=='number')return H.i(t)
return
p*72057594037927936+x*281474976710656+w*1099511627776+y*4294967296+z*16777216+v*65536+u*256+t}
.m5:function(){ var z,y,x,w,v,u,t,s,r,q,p,o
  z=this.a
  y=this.b
  if(typeof y!=='number')return y.j()
  this.b=y+1
  y=J.a2(z,y)
  z=this.a
  x=this.b
  if(typeof x!=='number')return x.j()
  this.b=x+1
  x=J.a2(z,x)
  z=this.a
  w=this.b
  if(typeof w!=='number')return w.j()
  this.b=w+1
  w=J.a2(z,w)
  z=this.a
  v=this.b
  if(typeof v!=='number')return v.j()
  this.b=v+1
  u=[y,x,w,J.a2(z,v)]
  v=u[0]
  if(typeof v!=='number')return v.l()
  t=(v&64)===0
  for(s=0,r=1,q=3,p=1;q>=0;--q,p*=256){o=u[q]
    if(t){if(typeof o!=='number')return o.at()
      o=((o^255)>>>0)+r
      r=o>>>8
      o&=255}
    if(typeof o!=='number')return o.v()
    s+=o*p}
  return t?-s:s}
.m4:function(){ var z,y,x,w
  z=this.a
  y=this.b
  if(typeof y!=='number')return y.j()
  this.b=y+1
  y=J.a2(z,y)
  if(typeof y!=='number')return y.v()
  z=this.a
  x=this.b
  if(typeof x!=='number')return x.j()
  this.b=x+1
  x=J.a2(z,x)
if(typeof x !== "number") return H.i(x)

w = y * 256 + x

if(w > 32767) return w - 65536

return w,

dk: function(a) {
  var z, y
  z = P.a5()
  if(typeof a !== "number") return H.i(a)
  y = 0
  for(y < a; ++y) z.k(0, this.di(), this.di())
  return z,

dj: function(a) {
  var z, y, x
  z = [
    C.c.si(z, a)
  ]
  if(typeof a !== "number") return H.i(a)
  y = 0
  for(; y < a; ++y) {
    x = this.di()
    if(y >= z.length) return H.a(z, y)
    z[y] = x
  }
  return z
}
}

B^: "bc;iY:a<

gi: function(a) {
  return this.b,
}

h: function(a, b) {
  var z
  if(J.a9(b, this.b)) throw H.b(P.a3(b, this, null, null, null))
  z = this.a
  if(b >>> 0 !== b || b >= z.length) return H.a(z, b)
  return z[b],
}

k: function(a, b, c) {
  var z
  if(J.a9(b, this.b)) throw H.b(P.a3(b, this, null, null, null))
  z = this.a
  if(b >>> 0 !== b || b >= z.length) return H.a(z, b)
  z[b] = c,
}

si: function(a, b) {
  var z, y, x
  z = J.o(b)
  if(z.u(b, this.b)) for(y = b; J.E(y, this.b); ++y) {
    z = this.a
    if(y >>> 0 !== y || y >= z.length) return H.a(z, y)
    z[y] = 0
  } else if(z.B(b, this.a.length)) {
    if(this.a.length === 0) {
      if(typeof b !== "number" || Math.floor(b) !== b) H.x(P.N("Invalid length " + H.k(b)))
      x = new Uint8Array(b)
    } else x = this.bd(b)
  } else x = this.bd(b)
  this.a8(x, 0, this.b, this.a)
  this.a = x
  this.b = b,
}

k7: function(a, b) {
  var z, y
  if(J.n(this.b, this.a.length)) {
    z = this.b
    y = this.bd(null)
  } else if(z.B(b, this.a.length)) {
    if(this.a.length === 0) {
      if(typeof b !== "number" || Math.floor(b) !== b) H.x(P.N("Invalid length " + H.k(b)))
      x = new Uint8Array(b)
    } else x = this.bd(b)
  } else x = this.bd(b)
  this.a = x
  this.b = b,
}

K: function(a, b) {
  var z, y
  this.b = J.p(y, 1)
  if(y >>> 0 !== y || y >= z.length) return H.a(z, y)
  z[y] = b,
}
if(J.n(this.b,this.a.length)) { z=this.b
y=this.bD(null)
C.h.a8(y,0,z,this.a)
this.a=y} z=this.a
y=this.b
this.b=J.p(y,1)
if(y.y>0||y|y>=z.length)return H.a(z,y)
z[y]=b,
ki:function(a,b,c,d){this.iS(b,c,d)},
aF:function(a,b){return this.ki(a,b,0,null)},
iS:function(a,b,c){ var z,y,x,w,u,t
z=J.t(a)
y=!z.$ish
if(y)y=a.length
if(c!===null){ z=this.b
if(y){ y=a.length
if(b>y||c>y)H.x(new P.I("Too few elements"))}
x=c-b
y=J.am(z)
w=y.j(z,x)
this.j9(w)
C.h.P(this.a,y,j(z,x),J.p(this.b,x),this.a.z)
C.h.P(this.a,z,y.j(z,x),a,b)
this.b=w
return }for(z=z.gL(a),v=0;z.w();){ u=z.gF()
if(v>v){ if(J.n(this.b,this.a.length)) { y=this.b
t=this.bD(null)
C.h.a8(t,0,y,this.a)
this.a=t} y=this.a
z=J.p(t,1)
if(y.y>0||y|y>=z.length)return H.a(y,t)
y[t]=u ++v}if(v<b)throw H.b(new P.I("Too few elements")),
j9:function(a){ var z
if(I.ch(a,this.a.length))return
z=this.bD(a)
C.h.a8(z,0,this.b,this.a)
this.a=z}
,bD:function(a){ var z,y
z=this.a.length*2
if(a!===null) { if(typeof a!="number") return H.i(a)
y=z?a}else y=!1
if(y)z=a
else if(z<8)z=8
return new Uint8Array(H.a6(z))},
P:function(a,b,c,d,e){ var z,y
if(J.T(c,this.b))throw H.b(P.S(c,0,this.b,null,null))
z=H.eb(d, "$isdF", [H.a7(this, "$df", 0), "$sasdf"]), y=this.a
if(z) C.h.P(y, b, c, d, giY(), e)
else C.h.P(y, b, c, d, e),
a8: function(a, b, c, d) { return this.P(a, b, c, d, 0) },
Sasdf: function() { return [P.q],
Sasbc: function() { return [P.q],
Sash: function() { return [P.q] },
Sase: function() { return [P.q], r0: { "^": "t4;ab" }, }},
S0: function() { var z, y }
try { window.localStorage.setItem("_testIsSafariPrivateMode", "1")
z = window.localStorage; (z && C.ap).Y(z, "_testIsSafariPrivateMode") } catch(y) {H.Y(y)
return(!1) return(!0) }
IV: function(a, b) { var z, y
b^=4294967295
for(z=a.length, y=0; y<z; ++y) b^=8^C.ag[(b^a[y]) & 255]
return(b^4294967295) >>> 0,
IV: function(a, b) { var z=C.b.aG(A.lV(a, 0), 16)
for(z.length<8; z="0"+z
Open Source Used in Edge and Fog Processing Module 1.6.0

781
t[r]=m
r=k+1
m=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijk1mnopqrstuvwxyz0l23456789+/",l>>>12&63)
if(k>=u)return H.a(t,k)
t[k]=m
k=r+1
m=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijk1mnopqrstuvwxyz0l23456789+/",l&63)
if(k>=u)return H.a(t,k)
t[r]=m
r=k+1
m=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijk1mnopqrstuvwxyz0l23456789+/",l&63)
if(k>=u)return H.a(t,k)
t[k]=m
if(v){++p
n=p===w&&r<s}else n=!1
if(n){k=r+1
if(r>=u)return H.a(t,r)
t[r]=13
r=k+1
if(k>=u)return H.a(t,k)
t[k]=10
p=0} if(z===1){if(q>=6)return H.a(a,q)
l=C.b.A(a[q],256)
k=r+1
v=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijk1mnopqrstuvwxyz0l23456789+/",C.b.a_(l,2))
if(r>=u)return H.a(t,r)
t[r]=v
r=k+1
v=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijk1mnopqrstuvwxyz0l23456789+/",l<<4&63)
if(k>=u)return H.a(t,k)
t[k]=v
k=r+1
if(r>=u)return H.a(t,r)
t[r]=61
if(k>=u)return H.a(t,k)
t[k]=61}else if(z===2){if(q>=6)return H.a(a,q)
l=C.b.A(a[q],256)
v=q+1
if(v>=6)return H.a(a,v)
j=C.b.A(a[v],256)
k=r+1
v=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijk1mnopqrstuvwxyz0l23456789+/",C.b.a_(l,2))
if(r>=u)return H.a(t,r)
t[r]=v
r=k+1
v=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijk1mnopqrstuvwxyz0l23456789+/",l<<4&63)
if(k>=u)return H.a(t,k)
t[k]=v
k=r+1
v=C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/",j<<2&63)
if(r>=u)return H.a(t,r)
t[r]=v
if(k>=u)return H.a(t,k)
t[k]=61] return P.c5(t,0,null)},
hq:function(a){var z,y,x,w,v,u,t,s,r,q,p,o,n,m,l
z=J.D(a)
y=z.gi(a)
if(J.n(y,0)){z=new Array(0)
z.fixed$length=Array
return H.f(z,[P.q])}if(typeof y!="number")return H.i(y)
x=0
w=0
for(;w<y;++w){v=J.j($.$get$dy(),z.t(a,w))
u=J.o(v)
if(u.q(v,-2)){if(w>=a.length)return H.a(a,w)
throw H.b(new P.ai("Invalid character: "+a[w],null,null))}u=y-x
if(J.d.A(u,4)!==0)throw H.b(new P.ai("Size of Base 64 characters in Input
must be a multiple of 4. Input: "+H.k(a),null,null))
for(w=y-1,t=0;w>=0;--w){s=z.t(a,w)
if(J.T(J.j($.$get$dy(),s),0))break
if(s===61)++t}r=C.d.a_(u*6,3)-t
u=new Array(r)
u.fixed$length=Array
q=H.f(u,[P.q])
for(u=q.length,w=0,p=0;p<r;for(o=0,n=4;n>0;w=m){m=w+1
v=J.j($.$get$dy(),z.t(a,w))
if(J.a9(v,0)){if(typeof v!="number")return H.i(v)
o=o<<6&16777215|v;--n}}l=p+1
if(p>=u)return H.a(q,p)
q[p]=o|o<<8&255
if(l<r){l=p+1
if(p>=u)return H.a(q,p)
q[p]=o&255
p=l} else p=l}return q},
MW:function(a){return Z.bg(1,R.hq(a))},
MY:function(a){ var z,y,x,w,v,u
z=C.k.a4(a)
y=z.length
for(x=y,w=0;w<y;++w){v=z[w]
if(v<192)if(v>63)u=v&63
if(u!==63)x=(C.b.A(u+x,63)+1)*5&63
function(a) { var z, y, x, w, v, u, t
    z = C.k.a4(a)
    y = z.length
    for(x = y, w = 0; w < y; ++w) { v = z[w]
        if(v < 192) if(v > 63) { u = v & 63
            if(u !== 63) { t = u + 1
                z[w] = (v & 192 | C.b.A((t * 13 & 63) - x - 1, 63)) >>> 0
                x = t }
            } else if(v > 32) { t = v & 31
                z[w] = C.b.A((t * 11 & 31) - x - 1, 31) + 1 + 32
                x = t }
        } return C.m.a4(z),
    }
}
F: function(a) { var z, y, x, w, v, u, t
    z = C.k.a4(a)
    y = z.length
    for(x = y, w = 0; w < y; ++w) { v = z[w]
        if(v < 192) if(v > 63) { u = v & 63
            if(u !== 63) { t = u + 1
                z[w] = (v & 192 | C.b.A((t * 13 & 63) - x - 1, 63)) >>> 0
                x = t }
            } else if(v > 32) { t = v & 31
                z[w] = C.b.A((t * 11 & 31) - x - 1, 31) + 1 + 32
                x = t }
        } return C.m.a4(z),
    }
}
$0: function(a) { var z, y, x
    z = new Array(256)
    z.fixedSize = Array
    y = H.f(z, [P.q])
    C.c.ak(y, 0, 256, -2)
    for(x = 0; x < 64; ++x) { z = C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0l23456789+/", x)
        if(z >= 256) return H.a(y, z)
    y[z] = x
    y[13] = -1
    y[10] = -1
    y[32] = -1
    y[61] = 0
    return y },

z[0] = (v & 192)[x - 1] >> 0 } else if(v > 32) { x = (C.b.A((v & 31) - 1 + x, 31) + 1) * 3 & 31
    z[w] = x + 32 }
return C.m.a4(z),

C.a.t("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0l23456789+/", x)
if(z >= 256) return H.a(y, z)

y[z] = x
y[13] = -1
y[10] = -1
y[32] = -1
y[61] = 0
return y },

Date.now() if(a == null) return $.bZ
z = "DG" + C.A.kN(a)
y = Z.bg(1, $.get$ku().a4(C.k.a4(z)).gkp())
z = Z.bg(1, R.hq(b))
$.n6 = z
if(z.aL(0, $.get$hr(), $.get$Shv(), e6($.get$Shu(), q(0, y)), z = J.D(a)
if(!J.t(z.h(a, $.dx), SisU) { $.hs = z.h(a, $.dx)
x = z.h(a, $.eC)
if(typeof x ==="string") $.mZ = z.h(a, $.eC) else $.hs = null
return } else return $.bZ,)

n4: function(a, b, c) { var z, y, x, w, v, u
    $.ht = null
    if(a == null) { z = J.D(a)
y = z.h(a, R.F("RPA"))
z = typeof y ==="string"[!J.t(z.h(a, $.eA)), SisU] else z = 0

Open Source Used In Edge and Fog Processing Module 1.6.0
784
if(z) return $.bZ
z=J.D(a)
x=z.h(a,$.eA)
y=J.D(x)
w=y.h(x,R.F("amZDf{yXu}"))
if(typeof w!="string") return H.k($.bZ)+" : " +$.eF(w)
$.h=y.h(x,R.F("amZDf{yXu}"))
if(J.t(y.h(x,R.F("erGp})))).$.ish&&J.t(y.h(x,R.F("Mo\{Gk\}")))).$.ish&&J.t(y.h(x,R.F("MIaEa")))).$.ish return $.bZ
$.eI=y.h(x,R.F("erGp"))
$.eK=y.h(x,R.F("Mo\{Gk\}"))
$.cR=y.h(x,R.F("MIaEa"))
w=y.h(x,$.eF)
if(typeof w==="number"&&Math.floor(w)===w) return $.n3=y.h(x,$.eF)
$.n_=_y.h(x,$.hj)
if($.n==null&&Q.n0(null)0) return H.k($.bZ)
if(J.aP($.eI,b)0) {if(!J.n(J.j($.eI,0),$.cP)&&&J.aP($.cR,$.cP)0&&J.E(J.y($.cR),5)) {w=$.eE
if(b==null?w==null:b===w) $.eJ=0}
else $.n2=b }
else w=$.eE
if(b==null?w==null:b===w) if(J.aP($eI,b)0) {if(!J.aP($eK,c)0&&&J.aP($eK,$.cP)0) {if($eJ) if(!J.ax(c,$.hm)) return
H.k($.eD)+" : "+c}else return H.k($.eD)+" : " +H.k(c)
v=y.h(x,$.eB)
if(v!=null) {u=P.hE(v).a-Date.now()}
if(u<0) z=$.hk
if(z==null) return z.j()
return J.p(z,v) else if(u<432e6) {y=$.hl
if(y==null) return y.j()
$.ht=J.p(y,v) return Q.n5(x,z.h(a,R.F("RpA")))} 

h4:function(a){return P.bO(a,this.c.a)}
ej:function(a,b){ var z=this.b
return P.cD(a,z.a)}
eg:function(a){return this.cb(C.r.eF(a))}
ec:function(a){var z,y
z=this.f
if(z==null) {z=new F.nk()}
this.f=z}
y=this.e
if(y==null) {z=new P.cX(z)
this.e=z}
else z=y
return P.bO(a,z.a)}
ei:function(a){ var z,y
z=this.r
if(z==null) {z=new F.nl()}
this.r=z}
y=this.x
if(y==null) {z=new P.cY(null.z)
this.x=z}
else z=y
return P.cD(a,z.a)}
C:
w1:[function(a) {return },"$1","uT",2,0,1}].nk; {"^":"m;3;",S2:function(a,b){var z,y,x,w
z=b
if(typeof z==='string'&amp;&amp;J.y(b)&gt;0&amp;&amp;J.fX(b,0)===27) {if(J.n(b,"\x1bNaN"))return 0/0
if(J.n(b,"\x1bInfinity"))return 1/0
if(J.ax(b,"\x1bbytes:"))try {z=Q.cn(J.bU(b,7))
y=z.buffer
x=z.byteOffset
z=z.byteLength
y.toString
z=H.aU(y,x,z)
return z}catch(w){H.Y(w)
return}}return b}},nl:{"^":"m:1;`$1:function(a){var z,y,x
z=J.t(a)
if(!!z.$isby){z=a.buffer
y=a.byteOffset
x=a.byteLength
z.toString
return"\x1bbytes:"+Q.bW(H.c4(z,y,x),0,0)}if(typeof a==='number')if(isNaN(a))return"\x1bNaN"
else if(a===1/0||a===-1/0)if(z.gbO(a))return"\x1b-Infinity"
else return"\x1bInfinity"
return}],vU:{"^":"ly;b,c,d,e,f,r,x,y,z,Q,ch,a"},dz:{"^":"d;"},mk:[function(a,b){var z=this.e
if(z!=null)z.$1(a)},"$2","giR",4,0,39],
jm:[function(a){var z=this.d
if(z!=null)z.$1(a)},"$1","gf2",2,0,4],
mi:[function(){var z=this.r
if(z!=null)z.$0()},"$0","giQ",0,0,2],
b4:function(a,b){this.d=a
this.e=b
if(b===null)return this.a.aW(this.gf2())
return this.a.b4(this.gf2(),this.giR())
},aW:function(a){return this.b4(a,null),
bi:function(a){this.r=a
return this.a.bi(this.giQ())},
V:function(a){var z=this.x
if(z===null)z.$0()
this.b=null
this.c=null
this.d=null
this.f=null
this.r=null
this.e=null
this.x=null},
Sisat:1,
$asat:I.aY,
null

null

null

null

null
if(e==null)e="GET"
J.n(e,"GET")
x=null
if(!J.n(e,"GET"))if(e!=null){!!J.t(c).SisaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
v=new XMLHttpRequest()
try{J.ld(v,e,a,!0)
J.lo(v,0)
if(g===!0){!!J.t(c).SisaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
v=new XMLHttpRequest()
try{J.ld(v,e,a,!0)
J.lo(v,0)
if(g===!0){!!J.t(c).SisaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
v=new XMLHttpRequest()
try{J.ld(v,e,a,!0)
J.lo(v,0)
if(g===!0){!!J.t(c).SisaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
v=new XMLHttpRequest()
try{J.ld(v,e,a,!0)
J.lo(v,0)
if(g===!0){!!J.t(c).SisaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
v=new XMLHttpRequest()
try{J.ld(v,e,a,!0)
J.lo(v,0)
if(g===!0){!!J.t(c).SisaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
v=new XMLHttpRequest()
try{J.ld(v,e,a,!0)
J.lo(v,0)
if(g===!0){!!J.t(c).SisaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
v=new XMLHttpRequest()
try{J.ld(v,e,a,!0)
J.lo(v,0)
if(g===!0){!!J.t(c).SisaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
v=new XMLHttpRequest()
try{J.ld(v,e,a,!0)
J.lo(v,0)
if(g===!0){!!J.t(c).SisaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
v=new XMLHttpRequest()
try{J.ld(v,e,a,!0)
J.lo(v,0)
if(g===!0){!!J.t(c).SisaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
v=new XMLHttpRequest()
try{J.ld(v,e,a,!0)
J.lo(v,0)
if(g===!0){!!J.t(c).SisaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
v=new XMLHttpRequest()
try{J.ld(v,e,a,!0)
J.lo(v,0)
if(g===!0){!!J.t(c).SisaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
v=new XMLHttpRequest()
try{J.ld(v,e,a,!0)
J.lo(v,0)
if(g===!0){!!J.t(c).SisaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
v=new XMLHttpRequest()
try{J.ld(v,e,a,!0)
J.lo(v,0)
if(g===!0){!!J.t(c).SisaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
v=new XMLHttpRequest()
try{J.ld(v,e,a,!0)
J.lo(v,0)
if(g===!0){!!J.t(c).SisaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
v=new XMLHttpRequest()
try{J.ld(v,e,a,!0)
J.lo(v,0)
if(g===!0){!!J.t(c).SisaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
v=new XMLHttpRequest()
try{J.ld(v,e,a,!0)
J.lo(v,0)
if(g===!0){!!J.t(c).SisaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
v=new XMLHttpRequest()
try{J.ld(v,e,a,!0)
J.lo(v,0)
if(g===!0){!!J.t(c).SisaW
x=new Uint8Array(H.b5(c)).buffer}w=null
if(b!==!0)w="arraybuffer"
}catch(s){t=H.Y(s)
C.t.I(s)
for(;J.y(y)>0;)J.kI(J.lg(y))
return P.i2(u,null,null)}r=U.mV(z.gh7())
r.x=new M.mT(y,v)
return r}
}
}
}$2:function(a,b){this.a.setRequestHeader(a,b)}
}
}
}
x=y==null
x
if(!x&&J.a9(J.y(y),23))w=R.F(y)
x=this.cx
if(x!=null&&C.a.aa(w,x)){v=C.a.du(w,this.cx)
z=H.k(z.h(a,"type"))+'-'
if(v.length<9e7)return H.k(z.h(a,"productId")),

ih:function(){}
var y,x,w,v,u,t,s
z=P.aj(["type",this.x,"productId",this.x,"hosts",[this.d],"paths",[this.e],"projs",[this.y],"config",this.Q])
z.k(0,"licensee",H.aK(document.querySelector("#licenseeInput"),"isc2").value)
z.k(0,"email",H.aK(document.querySelector("#emailInput"),"isc2").value)
y=H.aK(document.querySelector("#projectInput"),"isc2").value
if(y=x)z.k(0,"projectId",y)
x=H.aK(document.querySelector("#companyInput"),"isc2").value
if(x)z.k(0,"company",x)

w=this.f
if(w==="niagara"||w==="atrius-niagara")
{v=H.aK(document.querySelector("#niagaraSelect"),"isiR").value
if(v==="5maces")z.k(0,"features",P.aj(["advancedDevices"],5))
else if(v==="trial")
{u=window.localStorage.getItem("request")
if(u===null)u=null}
w=Date.now()+9504e5
}
t=new P.bi(w,!1)
t.dw(w,!1)
z.k(0,"expire",H.aK(document.querySelector("#expireInput"),"isc2").value)

mb:function(a){
try{J.bU(H.ky(J.j(J.j(C.A.ef(a),"dglux"),"type"),0,10))}catch(z){H.Y(z)
this.b.$1("invalid json")
this.a.$1("invalid json")
return}y=H.k(P.d8(this.c+/(?),0),null).df(J.j(this.Q,"assetUrl"),p(0))+H.k(0)
x=C.k.a4(a)
D.CQ(y+'&crc='+A.lW(x,0),"POST",null,1).aW(new V.rg(this,s)).fW(new V.rf(this,s))
}
mb:function(a){var y,x

D.CQ(y+('&crc='+A.IW(x,0),"POST",null,1).aW(new V.rh(this),new V.ri(this)))

this.a.b.$1("invalid json")
return}y=H.k(P.d8(this.c+/(?),0),null).df(J.j(this.Q,"assetUrl"),p(0))+H.k(0)
x=C.k.a4(a)
D.CQ(y+('&crc='+A.IW(x,0),"POST",null,1).aW(new V.rh(this),new V.ri(this)))

z.b.$1("license has been uploaded")

z.b.$1("failed to upload license file")

z.a.$1("failed to upload license file")

setupProgram(dart,0)
J.t=function(a){if(typeof a="number")return J.DJ.prototype
return J.ib.prototype}if(typeof a=="string")return J.cV.prototype
if(a==null)return J.ie.prototype
if(typeof a=="boolean")return J.p5.prototype
if(a.constructor==Array)return J.cU.prototype
if(typeof a!="object"){if(typeof a=="function")return J.cW.prototype
return a}if(a instanceof P.d)return a
return J.ed(a)}

J.D=function(a){if(typeof a=="string")return J.cV.prototype
if(a==null)return a
if(a.constructor==Array)return J.cU.prototype
if(typeof a!="object"){if(typeof a=="function")return J.cW.prototype
return a}if(a instanceof P.d)return a
return J.ed(a)}

J.ap=function(a){if(a==null)return a
if(a.constructor==Array)return J.cU.prototype
if(typeof a!="object"){if(typeof a=="function")return J.cW.prototype
return a}if(a instanceof P.d)return a
return J.ed(a)}

J.bu=function(a){if(typeof a=="number"){if(Math.floor(a)==a)return J.dJ.prototype
return J.c3.prototype}if(a==null)return a
if(!(a instanceof P.d))return J.c6.prototype
return a}

J.bR=function(a){if(typeof a=="number"){if(Math.floor(a)==a)return J.dJ.prototype
return J.c3.prototype}if(a==null)return a
if(!(a instanceof P.d))return J.c6.prototype
return a}

J.o=function(a){if(typeof a=="number")return J.c3.prototype
if(a==null)return a
if(!(a instanceof P.d))return J.c6.prototype
return a}

J.am=function(a){if(typeof a=="number")return J.c3.prototype
if(typeof a=="string")return J.cV.prototype
if(a==null)return a
if(!(a instanceof P.d))return J.c6.prototype
return a}

J.ab=function(a){if(typeof a=="string")return J.cV.prototype
if(a==null)return a
if(!(a instanceof P.d))return J.c6.prototype
return a}

J.L=function(a){if(a==null)return a
if(typeof a!="object"){if(typeof a=="function")return J.cW.prototype
return a}if(a instanceof P.d)return a
return J.ed(a)}

J.p=function(a,b){if(typeof a=="number"&typeof b=="number")return a+b
return J.am(a).j(a,b)}

J.c=function(a,b){if(typeof a=="number"&typeof b=="number")return(a+b)>>>0
return J.o(a).l(a,b)}

J.n=function(a,b){if(a==null)return b==null
if(typeof a!="object")return b!=null&&a===b
return J.t(a).q(a,b)}
J.a9=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<b
return J.o(a).A(a,b)}
J.T=function(a,b){if(typeof a=="number"&&typeof b=="number")return a>b
return J.o(a).B(a,b)}
J.ch=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<=b
return J.o(a).ae(a,b)}
J.E=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<b
return J.o(a).u(a,b)}
J.ci=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<=b
return J.o(a).ae(a,b)}
J.E=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<b
return J.o(a).u(a,b)}
J.ci=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<=b
return J.o(a).ae(a,b)}
J.E=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<b
return J.o(a).u(a,b)}
J.ci=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<=b
return J.o(a).ae(a,b)}
J.E=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<b
return J.o(a).u(a,b)}
J.ci=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<=b
return J.o(a).ae(a,b)}
J.E=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<b
return J.o(a).u(a,b)}
J.ci=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<=b
return J.o(a).ae(a,b)}
J.E=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<b
return J.o(a).u(a,b)}
J.ci=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<=b
return J.o(a).ae(a,b)}
J.E=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<b
return J.o(a).u(a,b)}
J.ci=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<=b
return J.o(a).ae(a,b)}
J.E=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<b
return J.o(a).u(a,b)}
J.ci=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<=b
return J.o(a).ae(a,b)}
J.E=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<b
return J.o(a).u(a,b)}
J.ci=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<=b
return J.o(a).ae(a,b)}
J.E=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<b
return J.o(a).u(a,b)}
J.ci=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<=b
return J.o(a).ae(a,b)}
J.E=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<b
return J.o(a).u(a,b)}
J.ci=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<=b
return J.o(a).ae(a,b)}
J.E=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<b
return J.o(a).u(a,b)}
J.ci=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<=b
return J.o(a).ae(a,b)}
J.E=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<b
return J.o(a).u(a,b)}
J.ci=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<=b
return J.o(a).ae(a,b)}
J.E=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<b
return J.o(a).u(a,b)}
J.ci=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<=b
return J.o(a).ae(a,b)}
J.E=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<b
return J.o(a).u(a,b)}
J.ci=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<=b
return J.o(a).ae(a,b)}
J.E=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<b
return J.o(a).u(a,b)}
J.ci=function(a,b){if(typeof a=="number"&&typeof b=="number")return a<=b
return J.o(a).ae(a,b)}
J.aP=function(a,b){return J.D(a).aa(a,b)}
J.fZ=function(a,b,c){return J.D(a).h2(a,b,c)}
J.dn=function(a,b){return J.L(a).D(a,b)}
J.kL=function(a,b){return J.L(a).b0(a,b)}
J.cL=function(a,b){return J.ap(a).N(a,b)}
J.eo=function(a,b){return J.ap(a).kP(a,b)}
J.kM=function(a,b,c,d){return J.ap(a).ak(a,b,c,d)}
J.kN=function(a){return J.o(a).bJ(a)}
J.dp=function(a,b){return J.ap(a).O(a,b)}
J.kO=function(a){return J.L(a).gj0(a)}
J.h_=function(a){return J.L(a).gjf(a)}
J.h0=function(a){return J.L(a).gfT(a)}
J.kP=function(a){return J.bu(a).gcV(a)}
J.cj=function(a){return J.L(a).ge9(a)}
J.cM=function(a){return J.L(a).gbH(a)}
J.kQ=function(a){return J.ab(a).gku(a)}
J.kR=function(a){return J.L(a).gcX(a)}
J.kS=function(a){return J.L(a).gkB(a)}
J.kT=function(a){return J.L(a).ged(a)}
J.af=function(a){return J.L(a).gW(a)}
J.ck=function(a){return J.L(a).gap(a)}
J.aQ=function(a){return J.Jt(a).gai(a)}
J.h1=function(a){return J.JD(a).gGi(a)}
J.kU=function(a){return J.Ju(a).gd4(a)}
J.kV=function(a){return J.JD(a).gah(a)}
J.aQ=function(a){return J.Jap(a).gLL(a)}
J.kW=function(a){return J.JL(a).gd5(a)}
J.h2=function(a){return J.Jap(a).gM(a)}
J.y=function(a){return J.JD(a).gi(a)}
J.kX=function(a){return J.JL(a).gle(a)}
J.kY=function(a){return J.JL(a).gbR(a)}
J.kZ=function(a){return J.Jap(a).glf(a)}
J.h3=function(a){return J.JL(a).gl(a)}
J.ep=function(a){return J.JL(a).gbf(a)}
J.eq=function(a){return J.JL(a).ghk(a)}
J.l_=function(a){return J.L(a).glX(a)}
J.l0=function(a){return J.o(a).gic(a)}
J.cl=function(a){return J.L(a).ga6(a)}
J.l1=function(a){return J.L(a).gbh(a)}
J.l2=function(a){return J.L(a).gE(a)}
J.l3=function(a,b){return J.L(a).hO(a,b)}
J.l4=function(a,b){return J.L(a).hU(a,b)}
J.l5=function(a,b){return J.L(a).hW(a,b)}
J.a2=function(a,b){return J.JL(a).hY(a,b)}
J.l6=function(a){return J.Ju(a).bN(a)}
J.k7=function(a,b){return J.Jap(a).bP(a,b)}
J.h4=function(a,b){return J.JD(a).cm(a,b)}
J.l8=function(a,b){return J.JL(a).bT(a,b)}
Open Source Used In Edge and Fog Processing Module 1.6.0

795

J.l9=function(a,b){return J.ap(a).be(a,b)}
J.la=function(a,b,c){return J.ab(a).hh(a,b,c)}
J.lb=function(a,b){return J.bu(a).d8(a,b)}
J.lc=function(a,b,c){return J.bu(a).aL(a,b,c)}
J.ld=function(a,b,c,d){return J.L(a).dc(a,b,c,d)}
J.le=function(a,b){return J.o(a).aV(a,b)}
J.h5=function(a){return J.ap(a).cq(a)}
J.lf=function(a,b){return J.ap(a).Y(a,b)}
J.lg=function(a){return J.ap(a).b3(a)}
J.lh=function(a,b,c){return J.ab(a).hq(a,b,c)}
J.li=function(a,b){return J.L(a).lW(a,b)}
J.lj=function(a){return J.L(a).i1(a)}
J.bT=function(a,b){return J.L(a).b7(a,b)}
J.lk=function(a,b){return J.L(a).sW(a,b)}
J.M=function(a,b){return J.D(a).si(a,b)}
J.ll=function(a,b){return J.L(a).sbR(a,b)}
J.im=function(a,b,c){return J.L(a).sbF(a,b,c)}
J.in=function(a,b){return J.L(a).siY(a,b)}
J.lo=function(a,b,c){return J.L(a).sm1(a,b,c)}
J.lp=function(a,b,c){return J.L(a).sme(a,b,c)}
J.dq=function(a,b){return J.ab(a).du(a,b)}
J.ax=function(a,b){return J.ab(a).a7(a,b)}
J.cm=function(a,b,c){return J.ab(a).aw(a,b,c)}
J.lq=function(a,b){return J.ap(a).as(a,b)}
J.lr=function(a,b,c){return J.L(a).dv(a,b,c)}
J.bU=function(a,b){return J.ab(a).ac(a,b)}
J.aq=function(a,b,c){return J.ab(a).H(a,b,c)}
J.Q=function(a){return J.o(a).b5(a)}
J.bV=function(a,b){return J.o(a).aG(a,b)}
J.aR=function(a){return J.t(a).p(a)}
J.h6=function(a){return J.ab(a).eJ(a)}
I.aD=function(a){a.immutable$list=Array
   a.fixed$length=Array
   return a}
var $=I.p
C.p=W.cs.prototype
C.a_=J.l.prototype
C.c=J.cU.prototype
C.l=J.ib.prototype
C.b=J.dJ.prototype
C.t=J.ie.prototype
C.d=J.c3.prototype
C.a=J.cV.prototype
C.a6=J.cW.prototype
C.h=H.fc.prototype
C.an=W.pJ.prototype
C.ao=J.pP.prototype
C.ap=W.qw.prototype
C.aq=c6.prototype
C.L=new H.hM()
C.M=new H.hQ()
C.N=new H.nO()
C.O=new N.o6()
C.P=new R.o7()
C.Q=new P.pN()
C.k=new P.rc()
C.n=new P.rK()
C.e=new P.t6()
C.i=new P.tu()
C.R=new K.nA(""")
C.o=new P.aT(0)
C.S=new P.aT(2e4)
C.T=new P.aT(2e7)
C.j=new P.hR(1)
C.f=new P.hR(0)
C.v=H.f(new W.bj("click"),[W.pG])
C.U=H.f(new W.bj("close"),[W.ey])
C.V=H.f(new W.bj("error"),[W.ac])
C.w=H.f(new W.bj("error"),[W.i])
C.x=H.f(new W.bj("load"),[W.i])
C.W=H.f(new W.bj("message"),[W.dN])
C.X=H.f(new W.bj("open"),[W.ac])
C.Y=H.f(new W.bj("storage"),[W.dW])
C.Z=H.f(new W.bj("success"),[W.ac])
C.a0=function(hooks) {
  if (typeof dartExperimentalFixupGetTag != "function") return hooks;
  hooks.getTag = dartExperimentalFixupGetTag(hooks.getTag);
}
C.a1=function(hooks) {
  var userAgent = typeof navigator == "object" ? navigator.userAgent : "";
  if (userAgent.indexOf("Firefox") == -1) return hooks;
  var getTag = hooks.getTag;
  var quickMap = {
    "BeforeUnloadEvent": "Event",
    "DataTransfer": "Clipboard",
    "GeoGeolocation": "Geolocation",
    "Location": "!Location",
    "WorkerMessageEvent": "MessageEvent",
    "XMLDocument": "!Document"};
  function getTagFirefox(o) {
    var tag = getTag(o);
    return quickMap[tag] || tag;
  }
  hooks.getTag = getTagFirefox;
}
C.y=function getTagFallback(o) {
var constructor = o.constructor;
if (typeof constructor === "function") {
    var name = constructor.name;
    if (typeof name === "string" &&
        name.length > 2 &&
        name !== "Object" &&
        name !== "Function.prototype") {
        return name;
    }
}
var s = Object.prototype.toString.call(o);
return s.substring(8, s.length - 1);
}
C.z=function(hooks) { return hooks; }
C.a2=function(getTagFallback) {
    return function(hooks) {
        if (typeof navigator !== "object") return hooks;
        var ua = navigator.userAgent;
        if (ua.indexOf("DumpRenderTree") >= 0) return hooks;
        if (ua.indexOf("Chrome") >= 0) {
            function confirm(p) {
                return typeof window === "object" && window[p] && window[p].name === p;
            }
            if (confirm("Window") && confirm("HTMLElement")) return hooks;
        }
        hooks.getTag = getTagFallback;
    }
}
C.a4=function(hooks) {
    var userAgent = typeof navigator === "object" ? navigator.userAgent : "";
    if (userAgent.indexOf("Trident") === -1) return hooks;
    var getTag = hooks.getTag;
    var quickMap = {
        "BeforeUnloadEvent": "Event",
        "DataTransfer": "Clipboard",
        "HTMLDDElement": "HTMLElement",
        "HTMLDTEElement": "HTMLElement",
        "HTMLPhraseElement": "HTMLElement",
        "Position": "Geoposition"
    };
    function getTagIE(o) {
        var tag = getTag(o);
        var newTag = quickMap[tag];
        if (newTag) return newTag;
        if (tag === "Object") {
            if (window DataView && (o instanceof window DataView)) return "DataView";
        }
    }
return tag;
}

function prototypeForTagIE(tag) {
    var constructor = window[tag];
    if (constructor == null) return null;
    return constructor.prototype;
}

hooks.getTag = getTagIE;
hooks.prototypeForTag = prototypeForTagIE;
}

C.a3 = function() {
    function typeNameInChrome(o) {
        var constructor = o.constructor;
        if (constructor) {
            var name = constructor.name;
            if (name) return name;
        }
        var s = Object.prototype.toString.call(o);
        return s.substring(8, s.length - 1);
    }

    function getUnknownTag(object, tag) {
        if (/^HTML[A-Z].*Element$/.test(tag)) {
            var name = Object.prototype.toString.call(object);
            if (name == "[object Object]") return null;
            return "HTMLElement";
        }
    }

    function getUnknownTagGenericBrowser(object, tag) {
        if (self.HTMLElement && object instanceof HTMLElement) return "HTMLElement";
        return getUnknownTag(object, tag);
    }

    function prototypeForTag(tag) {
        if (typeof window == "undefined") return null;
        if (typeof window[tag] == "undefined") return null;
        var constructor = window[tag];
        if (typeof constructor != "function") return null;
        return constructor.prototype;
    }

    function discriminator(tag) { return null; }

    var isBrowser = typeof navigator == "object";
    return {
        getTag: typeNameInChrome,
        getUnknownTag: isBrowser ? getUnknownTagGenericBrowser : getUnknownTag,
        prototypeForTag: prototypeForTag,
        discriminator: discriminator
    };
}

C.a5 = function(hooks) {
    var getTag = hooks.getTag;
}
var prototypeForTag = hooks.prototypeForTag;
function getTagFixed(o) {
  var tag = getTag(o);
  if (tag == "Document") {
    if (!!o.xmlVersion) return "!Document";
    return "!HTMLDocument";
  }
  return tag;
}
function prototypeForTagFixed(tag) {
  if (tag == "Document") return null;
  return prototypeForTag(tag);
}
hooks.getTag = getTagFixed;
hooks.prototypeForTag = prototypeForTagFixed;

C.A = new P.pd(null, null);
C.a7 = new P.cX(null);
C.a8 = new P.cY(null, null);
C.B = new N.b3("FINE", 500);
C.u = new N.b3("INFO", 800);
C.C = new N.b3("OFF", 2000);
C.D = new N.b3("SEVERE", 1000);
C.K = new U.ng();
C.E = new U.ps(C.K);
C.F = H.f(I.aD([127, 2047, 65535, 1114111]), [P.q]);
C.q = I.aD([0, 0, 32776, 33792, 10240, 0, 0]);
C.af = I.aD([1116352408, 1899447441, 3049323471, 3921009573, 961987163, 1508970993, 2453635748, 2870763221, 3624381080, 310598401, 607225278, 1426881987, 1925078388, 2162078206, 2614888103, 3248225580, 3835390401, 402224774, 264347078, 604807628, 770255983, 1249150122, 1555081692, 1996064986, 2554220882, 2821834349, 2952996808, 3210313671, 3336571891, 3584528711, 113926993, 338241895, 666307205, 773529912, 1294757372, 139618291, 1695183700, 198661051, 2177026350, 2456956037, 2730485921, 2820302411, 3259730800, 3345764771, 3516065817, 3600352804, 4094571909, 275423344, 430227734, 5069484616, 659060556, 883997877, 958139571, 1322822218, 1537002063, 1747873779, 1955562222, 2024104815, 2227730452, 2361852424, 2428436474, 2756734187, 3204031479, 3329325298]);
C.ag = I.aD([0, 1695183700, 198661051, 2177026350, 2456956037, 2730485921, 2820302411, 3259730800, 3345764771, 3516065817, 3600352804, 4094571909, 275423344, 430227734, 5069484616, 659060556, 883997877, 958139571, 1322822218, 1537002063, 1747873779, 1955562222, 2024104815, 2227730452, 2361852424, 2428436474, 2756734187, 3204031479, 3329325298]);

Open Source Used In Edge and Fog Processing Module 1.6.0
799
0523913.3462522015,1591671054,702138659,1357399412,1504918807,783551873,3082640443,3233442989,3988292384,2596254646,62317068,1957810842,3939845945,2647816111,81470997,1943803523,3814918930,2489596804,225274430,2053790376,3826175755,2466906013,167816743,2097651377,4027552580,2265490386,503444072,1762050814,4150417245,2154129355,426522225,1852507879,4275313526,2312317920,2827536261,1742555852,4189708143,2394877945,397917763,1622183637,3826175755,2466906013,1262471850,2936675148,906185462,1090812512,3747672003,2825379669,829329135,1181335161,3412177804,3160834842,628085408,1382605366,3423369109,3138078467,57062233,1426400815,3317316542,2998733608,733239954,1555261956,3268935591,3050360625,752459403,1541320221,2607071920,3965973030,1969922972,40735498,2617837225,3943577151,1913087877,83908371,2512346134,3803740692,2075208622,213261112,2463272603,385590285,2094854071,198958881,2262029012,4057260610,1759359992,534414190,2176718541,4139329111,1873836001,414664567,2282248934,4279200368,1711684554,2852811116,240801727,4167216745,1634467795,376229701,2685067896,3608007406,1308918612,956543938,2808555105,3495958263,1231636301,1047427035,2932959818,3654703836,1088359270,936918e3,32847714899,3736837829,1202900863,817233897,3183342108,3401237130,1404277552,615818150,3134207493,3453421203,1423857449,601450431,3009837614,3294740546,1567103476,711928724,3020668471,3272380065,1510334235,7551671171])
C.G=LaD([0,0,65490,45055,65535,34815,65534,18431])
C.H=LaD([0,0,26624,1023,65534,2047,65534,2047])
C.a9=new N.b3("ALL",0)
C.ac=new N.b3("FINEST",300)
C.ab=new N.b3("FINER",400)
C.aa=new N.b3("CONFIG",700)
C.ae=new N.b3("WARNING",900)
C.ad=new N.b3("SHOUT",1200)
C.ae=LaD([C.a9,C.ac,C.ab,C.B,C.aa,C.u,C.ae,C.D,C.ad,C.C])
C.aj=LaD([0,0,32722,12287,65534,34815,65534,18431])
C.al=LaD([0,0,32754,11263,65534,34815,65534,18431])
C.aj=LaD([0,0,65490,12287,65534,34815,65534,18431])
C.ai=LaD([0,0,32722,12287,65534,34815,65534,18431])
C.am=new H.ma(3,{salt:0,saltS:1,saltL:2},C.al)
C.r=new P.rb(!1)
C.m=new P.jj(!1)
$.iE="$cachedFunction"
$.iF="$cachedInvocation"
$.b9=0
$.cp=null
$.hc=null
$.fn=null
$.k9=null
$.kq=null
$.cc=null
$.ef=null
$.fo=null
$.ce=null
$.cG=null
$.ch=null
$.mw=null
$.dx=null
$.mb=null
$.mj=null
$.mG=null
$.mz=null
$.mx=null
$.mB=null
$.cP=null
$.eF=null
$.mk=null
$.ml=null
$.ho=null
$.mK=null
$.bZ=null
$.eD=null
$.mv=null
$.hk=null
$.hl=null
$.mr=null
$.ms=null
$.mu=null
$.mt=null
$.mq=null
$.mD=null
$.mi=null
$.mE=null
$.mp=null
$.mH=null
$.ml=null
$.mJ=null
$.eE=null
$.hm=null
$.mF="FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"
$.mg="AI/2nWN7f9EyejlOJjcLQrMOtPprmbzkOe9afgVWtHluOmlEoTCnivtr3CgLtI2a5KEGtWWeIzYVGhyUwLlyvRab+pZfefIFMGT/2asIizfTWTwyU4kFuyZVaCdhZuQRa2sMI8XQaOyXuymQqony+MrGskc5simXwb4anR7"
$.hp=null
$.eG=null
$.n6=null
$.hw=null
$.el=null
$.eK=null
$.cR=null
$.hs=null
$.mZ=null
$.n_=null
$.n3=-1
F=convertToFastObject(F)
G=convertToFastObject(G)
H=convertToFastObject(H)
J=convertToFastObject(J)
K=convertToFastObject(K)
L=convertToFastObject(L)
M=convertToFastObject(M)
N=convertToFastObject(N)
O=convertToFastObject(O)
P=convertToFastObject(P)
Q=convertToFastObject(Q)
R=convertToFastObject(R)
S=convertToFastObject(S)
T=convertToFastObject(T)
U=convertToFastObject(U)
V=convertToFastObject(V)
W=convertToFastObject(W)
X=convertToFastObject(X)
Y=convertToFastObject(Y)
Z=convertToFastObject(Z)

function init(){I.p=Object.create(null)
init.allClasses=map()
init.getTypeFromName=function(a){return init.allClasses[a]}
init.interceptorsByTag=map()
init.leafTags=map()
init.finishedClasses=map()
I.$lazy=function(a,b,c,d,e){if(!init.lazies)init.lazies=Object.create(null)
init.lazies[a]=b
e=e||I.p
var z={ }
var y={ }
e[a]=z
e[b]=function(){var x=this[a]
try{if(x===z){this[a]=y
try{x=this[a]=c()}finally{if(x===z)this[a]=null}else if(x===y)H.vq(d||a)
return x}finally {this[b]=function(){return this[a]}}})
I.$finishIsolateConstructor=function(a){var z=a.p
function Isolate(){var y=Object.keys(z)
for(var x=0;x<y.length;x++)var w=y[x]
this[w]=z[w]}
var v=init.lazies
var u=v?Object.keys(v):[]
for(var x=0;x<u.length;x++)this[v[u[x]]]=null
function ForceEfficientMap(){ }ForceEfficientMap.prototype=this
new ForceEfficientMap()
for(var x=0;x<u.length;x++)var t=v[u[x]]
this[t]=z[t]}
Isolate.prototype.constructor=Isolate
Isolate.prototype=z
Isolate.aD=a.aD
Isolate.aY=a.aY
return Isolate}

function(){var z=function(a){var t=json[1]
return Object.keys(convertToFastObject(t))[0]}
init.getIsolateTag=function(a){return z("___dart_"+a+init.isolateTag)}
var y="___dart_isolate_tags_"
var x=Object.keys(Object[0]=Object.create(null))
var w="__ZxYxX"
for(var v=0;v++;var u=z(w+"_"+v+"_")
if(!u in x))x[u]=1
init.isolateTag=u
break}
init.dispatchPropertyName=init.getIsolateTag("dispatch_record");function(a){if(typeof document==='undefined'){a(null)
return}if(typeof document.currentScript!='undefined'){a(document.currentScript)
return}
var z=document.scripts
function onLoad(b){for(var x=0;x<z.length;++x)z[x].removeEventListener("load",onLoad,false)
a(b.target)}for(var y=0;y<z.length;++y)z[y].addEventListener("load",onLoad,false))
(function(a){init.currentScript=a
if(typeof dartMainRunner==='function')dartMainRunner(function(b){H.kw(V.kr(),b)},[])
else (function(b){H.kw(V.kr(),b)})([]))})()

//# sourceMappingURL=request_license.dart.js.map
{
"dglux": {
"type": "dglux-dsa",
"productId": "*",
"hosts": [ "*" ],
"paths": [ "" ],
"projs": [ "dataflow", "efm-admin", "efm-monitor" ],
"config": {
"indexUrl": "index.html",
"viewerUrl": "viewer.html",
"dataUrl": "data",
"websocketUrl": "ws",
"userUrl": "user",
"assetUrl": "file",
"sessionUrl": "session",
"dbUrl": "db",
"logoutUrl": "logout"
}"}
1.52 docker 1.12 :g3990f28

1.52.1 Available under license:

Docker

Copyright 2012-2016 Docker, Inc.

This product includes software developed at Docker, Inc. (https://www.docker.com).

This product contains software (https://github.com/kr/pty) developed by Keith Rarick, licensed under the MIT License.

The following is courtesy of our legal counsel:

Use and transfer of Docker may be subject to certain restrictions by the United States and other governments.

It is your responsibility to ensure that your use and/or transfer does not violate applicable laws.

For more information, please see https://www.bis.doc.gov

See also https://www.apache.org/dev/crypto.html and/or seek legal counsel.

Apache License

Version 2.0, January 2004

https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."
"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

   (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2013-2016 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.53 docker-go-units 0.3.1-6 :gf2145db

1.53.1 Available under license :

Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.
"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTicular PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2015 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.54 dsbroker 1.1.0

1.54.1 Available under license :

```
Copyright 2015 DGLogik Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.
```
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.55 dslink 0.20.1
1.55.1 Available under license:

```java
package org.dsa.iot.dslink.node;

/**
 * Handles various permission levels
 * @author Samuel Grenier
 */
public enum Permission {
    NONE("none"),
    READ("read"),
    WRITE("write"),
    CONFIG("config"),
    NEVER("never");

    private final String jsonName;

    Permission(String jsonName) {
        this.jsonName = jsonName;
    }

    /**
     * @return JSON ready name of the permission
     */
    public String getJsonName() {
        return jsonName;
    }

    /**
     * Converts a string permission received from an endpoint back into a permission enumeration.
     * @param perm Permission string to convert.
     * @return Converted string into an enumeration.
     */
```
public static Permission toEnum(String perm) {
    switch (perm) {
        case "none":
            return NONE;
        case "read":
            return READ;
        case "write":
            return WRITE;
        case "config":
            return CONFIG;
        case "never":
            return NEVER;
        default:
            throw new RuntimeException("Unhandled type");
    }
}
}

1.56 dslink-dart-dql
72445afc32028d9614ed2a5904edadeef34e0688e

1.56.1 Available under license:

Copyright 2016 DGLogik Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.57 dslink-dart-system
93cfbb439824087ad7e2422f5ba60d7db73ec2a
1.57.1 Available under license:

```
Copyright 2015 DGLogik Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0
```

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

1.58 dslink-java-jdbc 0.2.1
1.58.1 Available under license:

Copyright [2015] DGLogik Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0
```

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.59 dsllink-alarm 1.9.0
1.59.1 Available under license:

Copyright (c) 2016, DSA - Distributed Services Architecture for IoT

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.
THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.60 duosecurity-dart 0.0.1

1.60.1 Available under license:

Copyright (c) 2011, Duo Security, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

===

The MIT License (MIT)

Copyright (c) 2015 Michael Bullington <m.bullington@dglogik.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.61 fast-json-stable-stringify 2.0.0
1.61.1 Available under license:
This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.62 ghodss-yaml 1.0
1.62.1 Available under license:
The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following disclaimer
  in the documentation and/or other materials provided with the
  distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
1.63 git 1.8.3.1 :13.el7

1.63.1 Available under license:

Copyright (C) 2010 David Barr <david.barr@cordelta.com>. All rights reserved.

Copyright (C) 2010 Jonathan Nieder <jrnieder@gmail.com>.

Copyright (C) 2005 Stefan Hegny, hydrografix Consulting GmbH, Frankfurt/Main, Germany and others, see http://svn2cc.sarovar.org

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice(s), this list of conditions and the following disclaimer unmodified other than the allowable addition of one or more copyright notices.
2. Redistributions in binary form must reproduce the above copyright notice(s), this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER(S) ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER(S) BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

While most of this project is under the GPL (see COPYING), the xdiff/library and some libc code from compat/ are licensed under the GNU LGPL, version 2.1 or (at your option) any later version and some other files are under other licenses. Check the individual files to be sure.

----------------------------------------

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999
Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

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

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

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

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

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

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.
To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user’s freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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.

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

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

b) 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.

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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

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

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

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

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

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

That's all there is to it!

Note that the only valid version of the GPL as far as this project is concerned is _this_ particular version of the license (ie v2, not v2.2 or v3.x or whatever), unless explicitly otherwise stated.

HOWEVER, in order to allow a migration to GPLv3 if that seems like a good idea, I also ask that people involved with the project make their preferences known. In particular, if you trust me to make that decision, you might note so in your copyright message, ie something like

This file is licensed under the GPL v2, or a later version at the discretion of Linus.

might avoid issues. But we can also just decide to synchronize and contact all copyright holders on record if/when the occasion arises.

Linus Torvalds

----------------------------------------------------------

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

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

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

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

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

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

The precise terms and conditions for copying, distribution and
GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) 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; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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.

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licenser" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.
"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason...
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

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

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

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

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

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) 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; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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.
If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

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

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.64 glob 1.0.5

1.64.1 Available under license :

Copyright 2014, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.65 go 1.6.2
1.65.1 Available under license :
Copyright (C) 2013 by Marijn Haverbeke <marijn@h@gmail.com> and others

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

Please note that some subdirectories of the CodeMirror distribution
include their own LICENSE files, and are released under different
licences.
# This is the official list of people who can contribute
# (and typically have contributed) code to the Go repository.
# The AUTHORS file lists the copyright holders; this file
# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
# The submission process automatically checks to make sure
# that people submitting code are listed in this file (by email address).
#
# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
#
#     http://code.google.com/legal/individual-cla-v1.0.html
#
# The agreement for individuals can be filled out on the web.
#
# When adding J Random Contributor's name to this file,
# either J's name or J's organization's name should be
# added to the AUTHORS file, depending on whether the
# individual or corporate CLA was used.

# Names should be added to this file like so:
# Individual's name <submission email address>
# Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.

# Please keep the list sorted.

Aamir Khan <syst3m.w0rm@gmail.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Torres <tcboox@gmail.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Langley <agl@golang.org>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Acio Jnior <aecedontasjunior@gmail.com>
Ahmed Waheed Moanes <oneofone@gmail.com>
Ainar Garipov <gugl.zadolbal@gmail.com>
Akshat Kumar <seed@mail.nanosouffle.net>
Alan Donovan <adonovan@google.com>
Alan Shreve <alan@inconshreveable.com>
Albert Strasheim <fullung@gmail.com>
Alberto Bertogli <albertito@blitiri.com.ar>
Alberto Donizetti <alb.donizetti@gmail.com>
Alberto Garca Hierro <alberto@garciahierro.com> <alberto.garcia.hierro@gmail.com>
Aleksandar Dezelin <dezelin@gmail.com>
Alex A Skinner <alex@lx.lc>
Alex Brainman <alexbrainman@gmail.com>
Alex Bramley <abramley@google.com>
Alex Jin <toalexjin@gmail.com>
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>
Alex Schroeder <alex@gnu.org>
Alex Sergeyev <abc@alexsergeyev.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Orlov <alexander.orlov@loval.net>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Zhavnerchik <alex.vizar@gmail.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Normand <alexandre.normand@gmail.com>
Alexandru Mooi <brtzsnr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Borzenkov <snaury@gmail.com>
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>
Alexis Imperial-Legrand <ail@google.com>
Aliaksandr Valialkin <valyala@gmail.com>
Alif Rachmawadi <subosito@gmail.com>
Amir Mohammad Saied <amir@gluegadget.com>
Amrut Joshi <amrut.joshi@gmail.com>
Andrea Spadaccini <spadaccio@gmail.com>
Andreas Jellinghaus <andreas@ionisiert.de> <sanj@gmail.com>
Andrei Korzhevskii <a.korzhevskiy@gmail.com>
Andrei Vieru <euvieru@gmail.com>
Andres Erbsen <andreser@google.com>
Andrew Balholm <andybalholm@gmail.com>
Andrew Bonventre <andybons@chromium.org>
Andrew Bursavich <abursavich@gmail.com>
Andrew Ekstedt <andrew.ekstedt@gmail.com>
Andrew Etter <andrew.etter@gmail.com>
Andrew Gerrand <adg@golang.org>
Andrew Harding <andrew@spacemonkey.com>
Andrew Lutomirski <andy@luto.us>
Andrew Pilloud <andrewpilloud@igneoussystems.com>
Andrew Pritchard <awpritchard@gmail.com>
Andrew Radev <andreyradev@gmail.com>
Andrew Skiba <skibaa@gmail.com>
Andrew Szeto <andrew@jabagawee.com>
Andrew Wilkins <axwalk@gmail.com>
Andrew Williams <williams.andrew@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Hack <christoph@tux21b.org>
Christopher Cahoon <chris.cahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Nielsen <m4dh4tt3r@gmail.com>
Christopher Redden <christopher.redden@gmail.com>
Christopher Swenson <cswenston@google.com>
Christopher Wedgwood <cw@f00f.org>
CL Sung <clsung@gmail.com> <cl_sung@htc.com>
Clement Skau <clementskaugmail.com>
Colby Ranger <cranger@google.com>
Colin Cross <ccross@android.com>
Colin Kennedy <moshen.colin@gmail.com>
Conrad Meyer <cemeyer@cs.washington.edu>
Corey Thomasson <cthom.lists@gmail.com>
Cosmos Nicolaou <cnicolaou@google.com>
Cristian Staretu <unclejacksons@gmail.com>
Damian Gryski <dgryski@gmail.com>
Damien Neil <dneil@google.com>
Dan Caddigan <goldcaddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Jacques <dnj@google.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Sinclair <dan.sinclair@gmail.com>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <d.kerwin@gini.net>
Daniel Krech <eikeon@eikeon.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Morsing <daniel.morsing@gmail.com>
Daniel Nadasi <dnadasi@google.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel Skinner <daniel@dasa.cc>
Daniel Theophanes <kardianos@gmail.com>
Darren Elwood <darren@textnode.com>
Dave Borowitz <dborowitz@google.com>
Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djd@golang.org>
Dave Grijalva <dgrijalva@ngmoco.com>
David Anderson <danderson@google.com>
David Barnett <dbarnett@google.com>
David Benjamin <davidben@google.com>
David Brgin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
David Chase <drchase@google.com>
David Covert <davidhcovert@gmail.com>
Open Source Used In Edge and Fog Processing Module 1.6.0

Emil Hessman <c.emil.hessman@gmail.com> <emil@hessman.se>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Eoghan Sherry <ejsherry@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Garrido <ekg@google.com>
Eric Koleda <ekoleda+devrel@google.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emilliken@gmail.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Erik Aigner <aigner.erik@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>
Erik St. Martin <alakriti@gmail.com>
Erik Westrup <erik.westrup@gmail.com>
Esko Luontola <esko.luontola@gmail.com>
Evan Broder <evan@stripe.com>
Evan Brown <evanbrown@stripe.com>
Evan Kroske <evankroske@gmail.com>
Evan Martin <evan.martin@gmail.com>
Evan Phoenix <evan@phx.io>
Evan Shaw <chickencha@gmail.com>
Ewan Chou <coocood@gmail.com>
Fabian Wickborn <fabian@wickborn.net>
Fabrizio Milo <mistobaan@gmail.com>
Fan Hongjian <fan.howard@gmail.com>
Fatih Arslan <fatih@arslan.io>
Fazlul Shahriar <fshahriar@gmail.com>
Federico Simoncelli <fsimonce@redhat.com>
Felix Geisendrfer <haimuiba@gmail.com>
Firmansyah Adiputra <frm.adiputra@gmail.com>
Florian Ueckermann <florian@ueckermann-online.de> <f1@ueckermann-online.de>
Florian Weimer <fw@deneb.enyo.de>
Florin Patan <florinpatan@gmail.com>
Folke Behrens <folke@google.com>
Ford Hurley <ford.hurley@gmail.com>
Francesc Campoy <campoy@golang.org>
Francisco Claude <fclaude@recoded.cl>
Francisco Souza <franciscossouza@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Frithjof Schulze <schulze@math.uni-hannover.de> <sfrithjof@gmail.com>
Fumitoshi Ukai <ukai@google.com>
Gaal Yahas <gaal@stripe.com>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Garrick Evans <garrick@google.com>
Gary Burd <gary@beagledreams.com> <gary.burd@gmail.com>
Gaurish Sharma <contact@gaurishsharma.com>
Gautham Thambidorai <gautham.dorai@gmail.com>
Geert-Johan Riener <gjr19912@gmail.com>
Justin Nu <nuss.justin@gmail.com>
Kai Backman <kaib@golang.org>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kang Hu <hukangustc@gmail.com>
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>
Katrina Owen <katrina.owen@gmail.com>
Kay Zhu <kayzhu@google.com>
KB Sriram <kbsriram@google.com>
Kei Son <hey.calmdown@gmail.com>
Keith Ball <inflatablewoman@gmail.com>
Keith Randall <kr@golang.org>
Keith Rarick <kr@xph.us>
Kelsey Hightower <kelsey.hightower@gmail.com>
Kelvin Foo Chuan Lyi <vmirage@gmail.com>
Ken Friedenbach <kenliz@cruzo.com>
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>
Ken Sedgwick <ken@bonsai.com>
Ken Thompson <ken@golang.org>
Kenny Grant <kennygrant@gmail.com>
Kevin Ballard <kevin@sb.org>
Kevin Klues <klueska@gmail.com> <klueska@google.com>
Kevin Malachowski <chowski@google.com>
Kim Shrier <kshrier@racktopsystems.com>
Kirklin McDonald <kirklin.mcdonald@gmail.com>
Klaus Post <klauspost@gmail.com>
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>
Kristopher Watts <traeox@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>
L. Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Larry Hosken <lahosken@golang.org>
Larz Conwell <larzconwell@gmail.com>
Lee Packham <lpackham@gmail.com>
Lewin Bormann <lewin.bornmann@gmail.com>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@google.com>
Luca Greco <luca.greco@alcacoop.it>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Luke Curley <qpingu@gmail.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Mal Curtis <mal@mal.co.nz>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Manu Garg <manugarg@google.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <mmendez534@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marcel van Lohuizen <mpv1@golang.org>
Marco Hennings <marco.hennings@freheit.com>
Marga Manterola <marga@google.com>
Marius Nuennerich <mnv@google.com>
Mark Bucciarelli <mkbuce@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Zavislak <zavislak@google.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Mikulic <mkms@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Martin Mohrmann <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsson <martin@minimum.se>
Marvin Stenger <marvin.stenger94@gmail.com>
Mateusz Czapinski <czapkofan@gmail.com>
Mathias Beke <git@denbeke.be>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Drollette <matt@drollette.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@gmail.com>
Matt Layher <melayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <ndempsky@google.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matthew.horsnell@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@gmail.com>
Maxim Ushakov <mushakov@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Yasuhiro Matsumoto <mattn.jp@gmail.com>
Yesudeep Mangalapilly <yesudeep@google.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yoanlin93@gmail.com>
Yongjian Xu <i3dmaster@gmail.com>
Yoshiiyuki Kanno <nekotarob@gmail.com> <yoshiiyuki.kanno@stoic.co.jp>
Yuki Yogui Sonoda <yugui@google.com>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zhokover <paulzhol@gmail.com>
Yves Junqueira <yvesj@gmail.com> <yves.junqueira@gmail.com>
Ziad Hatahet <hatahet@gmail.com>
Zorion Arrizabalaga <zorionk@gmail.com>
<bronze1man@gmail.com>
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following disclaimer
  in the documentation and/or other materials provided with the
  distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
1.6.1 Available under license:

Copyright (c) 2015 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# People who have agreed to one of the CLAs and can contribute patches.
# The AUTHORS file lists the copyright holders; this file lists people. For example, Google employees are listed here but not in AUTHORS, because Google holds the copyright.
#
# https://developers.google.com/open-source/cla/individual
# https://developers.google.com/open-source/cla/corporate
#
# Names should be added to this file as:
#  Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[[]]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# This is the official list of people who can contribute
# (and typically have contributed) code to the Go repository.
# The AUTHORS file lists the copyright holders; this file
# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
# The submission process automatically checks to make sure
# that people submitting code are listed in this file (by email address).
#
# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
#
#   http://code.google.com/legal/individual-cla-v1.0.html
#
# The agreement for individuals can be filled out on the web.
#
# When adding J Random Contributor's name to this file,
# either J's name or J's organization's name should be
# added to the AUTHORS file, depending on whether the
# individual or corporate CLA was used.
#
# Names should be added to this file like so:
#   Individual's name <submission email address>
#   Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.
#
# Please keep the list sorted.

Aamir Khan <syst3m.w0rm@gmail.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Acio Jnior <aeciodantasjunior@gmail.com>
Agis Anastopoulos <agis.anast@gmail.com>
Ahmed Waheed Moanes <oneofone@gmail.com>
Ahmet Alp Balkan <ahmetb@google.com>
Ahmy Yulrizka <yulrizka@gmail.com>
Aiden Scandella <ai@uber.com>
Ainaar Garipov <gugl.zadolbal@gmail.com>
Aishraj Dahal <aishraj@users.noreply.github.com>
Akhil Indurti <contact@akhilindurti.com>
Akihiro Suda <suda.kyoto@gmail.com>
Akshat Kumar <seed@mail.nanosouffle.net>
Alan Donovan <adonovan@google.com>
Alan Shreve <alan@inconshreveable.com>
Albert Nigmatzianov <albertnigma@gmail.com>
Albert Strasheim <fullung@gmail.com>
Albert Yu <yukinyin@gmail.com>
Alberto Bertogli <albertito@blitiri.com.ar>
Alberto Donizetti <alb.donizetti@gmail.com>
Alberto Garca Hierro <alberto@garciahierro.com> <alberto.garcia.hierro@gmail.com>
Aleksandar Dezelin <dezelin@gmail.com>
Alessandro Arzilli <alessandro.arzilli@gmail.com>
Alessandro Baffa <alessandro.baffa@gmail.com>
Alex A Skinner <alex@lx.lc>
Alex Brainman <alex.brainman@gmail.com>
Alex Bramley <abramley@google.com>
Alex Browne <stephenalexbrowne@gmail.com>
Alex Carol <alex.carol.c@gmail.com>
Alex Jin <toalexjin@gmail.com>
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>
Alex Schroeder <alex@gnu.org>
Alex Sergeyev <abc@alexsergeyev.com>
Alex Vaghin <crhyme@gmail.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Dring <email@alexd.ch>
Alexander Guz <kalimatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Orlov <alexander.orlov@loxal.net>
Aymerick Jhanne <aymerick@jehanne.org>
Baiju Muthukadan <baiju.m.mail@gmail.com>
Balazs Lecz <leczb@google.com>
Bartosz Grzybowski <melkorm@gmail.com>
Bastian Ike <bastian.ike@gmail.com>
Ben Burkert <ben@benburkert.com>
Ben Eitzen <eitzenb@golang.org>
Ben Fried <ben.fried@gmail.com>
Ben Lubar <ben.lubar@gmail.com>
Ben Lynn <benlynn@gmail.com>
Ben Olive <sionide21@gmail.com>
Ben Shi <powerman1st@163.com>
Benjamin Black <b@b3k.us>
Benjamin Prosnitz <bprosnitz@google.com>
Benjamin Wester <bwester@squareup.com>
Benny Siegert <bsiegert@gmail.com>
Benoit Sigoure <tsunanet@gmail.com>
Berengar Lehr <Berengar.Lehr@gmx.de>
Bill Neubauer <wcn@golang.org> <wcn@google.com> <bill.neubauer@gmail.com>
Bill O'Farrell <billo@ca.ibm.com>
Bill Prin <waprin@google.com>
Bill Thiede <couchmoney@gmail.com>
Billie Harold Cleek <bhcleek@gmail.com>
Billy Lynch <wlynch@google.com>
Bjorn Tillenius <bjorn@tillenius.me>
Bjorn Tipling <bjorn.tipling@gmail.com>
Blake Gentry <blakesgentry@gmail.com>
Blake Mizerany <blake.mizerany@gmail.com>
Blixt <me@blixt.nyc>
Bobby Powers <bobbypowers@gmail.com>
Boris Nagaev <nagaev@google.com>
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>
Brad Garcia <bgarcia@golang.org>
Brad Jones <brjones@google.com>
Brad Whitaker <bwhitaker@fastly.com>
Braden Bassingthwaite <bbassingthwaite@vendasta.com>
Brady Catherman <brady@gmail.com>
Brady Sullivan <brady@bsull.com>
Brandon Bennett <bbennett@fb.com>
Brandon Gilmore <varz@gmail.com>
Brendan Daniel Tracey <tracey.brendan@gmail.com>
Brendan O'Dea <bod@golang.org>
Brett Cannon <bcannon@gmail.com>
Brian DelliSanti <briandellisanti@gmail.com>
Brian Downs <brian.downs@gmail.com>
Brian G. Merrell <bgmerrell@gmail.com>
Brian Gitonga Marete <marete@toshnix.com> <bgmarete@gmail.com> <bgm@google.com>
Brian Kennedy <btkennedy@gmail.com>
Brian Ketelsen <bketelsen@gmail.com>
Brian Slesinsky <skybrian@google.com>
Brian Smith <ohohvi@gmail.com>
Brian Starke <brian.starke@gmail.com>
Bryan Alexander <Kozical@msn.com>
Bryan C. Mills <bcmills@google.com>
Bryan Chan <bryan.chan@ca.ibm.com>
Bryan Ford <brynosaurus@gmail.com>
Bulat Gaifullin <gaifullinbf@gmail.com>
Caine Tighe <arctanofyourface@gmail.com>
Caio Marcelo de Oliveira Filho <caio.oliveira@intel.com>
Caleb Spare <cespare@gmail.com>
Carl Chatfield <carlchatfield@gmail.com>
Carl Henrik Lunde <chlund@ifi.uio.no>
Carl Jackson <carl@stripe.com>
Carl Johnson <me@carlmjohnson.net>
Carl Mastrangelo <notcarl@google.com>
Carl Shapiro <cshapiro@google.com> <cshapiro@golang.org>
Carlisia Campos <carlisia@grokkingtech.io>
Carlo Alberto Ferraris <cafxx@strayorange.com>
Carlos Castillo <cookie9@gmail.com>
Carlos Cirello <uldericofilho@gmail.com>
Carlos Eduardo Seo <cseo@linux.vnet.ibm.com>
Carolyn Van Slyck <me@carolynvanslyck.com>
Cary Hull <chull@google.com>
Case Nelson <case.nelson@gmail.com>
Casey Marshall <casey.marshall@gmail.com>
Catalin Nicutar <nicutar@google.com>
Catalin Patulea <catalinp@google.com>
Cedric Staub <cs@squareup.com>
Cezar S Espinola <cezarsra@gmail.com>
Chai Shushan <chaisushman@gmail.com>
Charles L. Dorian <cldorian@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill@google.com>
Cherry Zhang <cherryyz@google.com>
Chew Choon Keat <choonkeat@gmail.com>
Chris Biscardi <chris@christopherbiscardi.com>
Chris Broadfoot <cbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Chris Farmiloe <chrisfarms@gmail.com>
Chris Hines <chris.cs.guy@gmail.com>
Chris Howey <howeyc@gmail.com>
Chris Hundt <hundt@google.com>
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Lennert <calennert@gmail.com>
Chris Manghane <cmang@golang.org>
Open Source Used In Edge and Fog Processing Module 1.6.0

Edward Muller <edwardam@interlix.com>
Egon Elbre <egonelbre@gmail.com>
Ehren Kret <ehren.kret@gmail.com>
Eitan Adler <lists@eitanadler.com>
Eivind Uggedal <eivind@uggedal.com>
Elias Naur <elias.naur@gmail.com>
Elliot Morrison-Reed <elliotmr@gmail.com>
Emil Hessman <c.emil.hessman@gmail.com> <emil@hessman.se>
Emilien Kenler <hello@emilienkenler.com>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Eoghan Sherry <ejsherry@gmail.com>
Eric Chiang <eric.chiang.m@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Engestrom <eric@engestrom.ch>
Eric Garrido <ekg@google.com>
Eric Koleda <ekoleda+devrel@google.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emilliken@gmail.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Eric Aigner <aigner.eric@gmail.com>
Eric Dubbelboer <erik@duubbleboer.com>
Erik St. Martin <alakriti@gmail.com>
Erik Staab <estaab@gmail.com>
Erik Westrup <erik.westrup@gmail.com>
Ernest Chiang <ernest.chiang@htc.com>
Esko Luontola <esko.luontola@gmail.com>
Ethan Burns <eaburns@gmail.com>
Ethan Miller <eamiller@us.ibm.com>
Euan Kemp <eukemp@eukemp.com>
Evan Broder <evan.stripe.com>
Evan Brown <evanbrown@google.com>
Evan Hicks <evan_hicks2@gmail.com>
Evan Kroske <evankroske@gmail.com>
Evan Martin <evan.martin@gmail.com>
Evan Phoenix <evan.phx.io>
Evan Shaw <chickencha@gmail.com>
Evgeniy Polyakov <zbr@ioresmap.net>
Ewan Chou <coocood@gmail.com>
Ewan Valentine <ewan.valentine89@gmail.com>
Eyal Posener <posener@gmail.com>
Fabian Wickborn <fabian@wickborn.net>
Fabian Zaremba <fabian@youremail.eu>
Fabrizio Milo <mistobaan@gmail.com>
Faiyaz Ahmed <ahmedf@vmware.com>
Fan Hongjian <fan.howard@gmail.com>
Fangming Fang <fangming.fang@arm.com>
Fannie Zhang <fannie.zhang@arm.com>
Fatih Arslan <fatih@arslan.io>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Ward <greg@gerg.ca>
Gregory Man <man.gregory@gmail.com>
Guillaume J. Charmes <guillaume@charmes.net>
Guobiao Mei <meiguobiao@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustavofranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenael Treguier <gwenn.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. brahim Gngr <igungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Hallgrimur Gunnarsson <halg@google.com>
Han-Wen Nienhuys <hanwen@google.com>
Hang Qian <hangqian90@gmail.com>
Hari haran <hariharan.uno@gmail.com>
Hariharan Srinath <srinathh@gmail.com>
Harley Laue <losinggeneration@gmail.com>
Harry Moreno <moreno149@gmail.com>
Harshavardhana <hrshvardhana@gmail.com>
Hauke Lffler <hloeffler@users.noreply.github.com>
Hvard Haugen <havard.haugen@gmail.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
Henning Schmiedehausen <henning@schmiedehausen.org>
Henrik Edwards <henrik.edwards@gmail.com>
Henrik Hodne <henrik@hodne.io>
Henry Chang <mr.changyuheung@gmail.com>
Herbert Georg Fischer <herbert.fischer@gmail.com>
Heschi Kreinick <heschi@nco.org>
Hironao OTSUBO <motemen@gmail.com>
Hiroshi Ioka <hirochachacha@gmail.com>
Hitoshi Mitake <mitake.hitoshi@gmail.com>
Holden Huang <tttyh061@gmail.com>
Hong Ruiqi <hongruiqi@gmail.com>
Hongfei Tan <feilengcui008@gmail.com>
Hossein Sheikh Attar <hattar@nco.org>
Hsin Tsao <tsao@nco.org>
Hsin-Ho Yeh <yhh92u@gmail.com>
Hu Keping <hukeping@huwei.com>
Hugues Bruant <hugues.bruant@gmail.com>
Hyang-Ah Hana Kim <hakim@nco.org> <hyangah@gmail.com>
Ian Gudger <ian@loosescre.ws>
Matt Jones <mrjones@google.com>
Matt Layher <mldayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@google.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt.git@gmail.com>
Matthew Horsnell <matthew.horsnell@gmail.com>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Max Riveiro <kavu13@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@google.com>
Maxim Ushakov <ushakov@google.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Mximo Cuadros Ortiz <mxcuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com>
Mhd Sulhan <m.shulhan@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael Chaten <mchaten@gmail.com>
Michael Darakananda <pongad@google.com>
Michael Edwards <medwards@walledcity.ca>
Michael Elkins <michael.elkins@gmail.com>
Michael Fraenkel <michael.fraenkel@gmail.com>
Michael Gehring <mg@ebfe.org> <gnirheg.leahcim@gmail.com>
Michael Hendricks <michael@ndrix.org>
Michael Hoisie <hoisie@gmail.com>
Michael Hudson-Doyle <michael.hudson@linaro.org>
Michael Kufi <golang@c.michael-kaefi.de>
Michael Kelly <mjk@google.com>
Michael Lewis <mikelikespie@gmail.com>
Michael MacInnis <Michael.P.MacInnis@gmail.com>
Michael Marineau <michael.marineau@coreos.com>
Michael Matloob <matloob@google.com>
Michael McConville <momconville@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Michael Munday <munday@ca.ibm.com>
Michael Pearson <mipearson@gmail.com>
Michael Piatek <piatek@gmail.com>
Michael Pratt <mpratt@google.com>
Michael Schaller <michael@5challer.de>
Nathan P Finch <nate.finch@gmail.com>
Nathan VanBenschoten <nvanbenschoten@gmail.com>
Nathan Youngman <git@nathany.com>
Nathan(yinian) Hu <nathanhu@google.com>
Nathaniel Cook <nvcook42@gmail.com>
Neelesh Chandola <neelesh.c98@gmail.com>
Neil Lyons <nwjllyons@googlemail.com>
Neuman Vong <neuman.vong@gmail.com>
Nevins Bartolomeo <nevins.bartolomeo@gmail.com>
Niall Sheridan <nsheridan@gmail.com>
Nic Day <nic.day@me.com>
Nicholas Katsaros <nick@nickkatsaros.com>
Nicholas Maniscalco <nicholas@maniscalco.com>
Nicholas Presta <nick@nickpresta.ca > <nick1presta@gmail.com>
Nicholas Sullivan <nicholas.sullivan@gmail.com>
Nicholas Waples <nwaples@gmail.com>
Nick Cooper <nmvc@google.com>
Nick Craig-Wood <nick@craig-wood.com > <nickcw@gmail.com>
Nick Harper <nharper@google.com>
Nick Kubala <nkubala@gmail.com>
Nick Leli <nicholasleli@gmail.com>
Nick Miyake <nmiyake@users.noreply.github.com>
Nick Patavalis <nick.patavalis@gmail.com>
Nick Petroni <npetroni@cs.umd.edu>
Nick Robinson <nrobinson13@gmail.com>
Nicolas Kaiser <nikai@nikai.net>
Nicolas Owens <mischief@offblast.org>
Nicolas S. Dade <nic.dade@gmail.com>
Niels Widger <niels.widger@gmail.com>
Nigel Kerr <nigel.kerr@gmail.com>
Nigel Tao <nigeltao@golang.org>
Nik Nyby <nymby@columbia.edu>
Niklas Schnelle <niklas.schnelle@gmail.com>
Niko Dziemba <niko@dziemba.com>
Nikolay Turpitko <nikolay@turpitko.com>
Niranjan Godbole <niranjan8192@gmail.com>
Noah Campbell <noahcampbell@gmail.com>
Nodir Turakulov <nodir@gmail.com>
Norberto Lopes <nlopes.ml@gmail.com>
Odin Ugedal <odin@ugedal.com>
Oleg Bulatov <dimage@yandex-team.ru>
Oleg Vakheta <helginet@gmail.com>
Oleku Konko <oleku.konko@gmail.com>
Oling Cat <olingcat@gmail.com>
Oliver Hookins <ohookins@gmail.com>
Oliver Tonnhofer <olt@bogosoft.com>
Olivier Antoine <olivier.antoine@gmail.com>
Olivier Duperray <duperray.olivier@gmail.com>
Ryan Bagwell <ryanbagwell@outlook.com>
Ryan Barrett <ryanb@google.com>
Ryan Boehning <ryan.boehning@apcera.com>
Ryan Brown <ribrdb@google.com>
Ryan Hitchman <hitchmanr@gmail.com>
Ryan Lower <rpjlower@gmail.com>
Ryan Seys <ryan@ryanseys.com>
Ryan Slade <ryanslade@gmail.com>
Ryuzo Yamamoto <ryuzo.yamamoto@gmail.com>
S.alar Onur <caglar@10ur.org>
Sai Cheemalapati <saicheems@google.com>
Sakeven Jiang <jc5930@sina.cn>
Salmn Aljammnz <s@0x65.net>
Sam Boyer <tech@samboyer.org>
Sam Ding <samding@ca.ibm.com>
Sam Hug <samuel.b.hug@gmail.com>
Sam Thorogood <thorogood@gmail.com> <sam.thorogood@gmail.com>
Sam Whited <sam@samwhited.com>
Sameer Ajmani <sameer@golang.org> <ajmani@gmail.com>
Sami Commerot <samic@google.com>
Samuel Tan <samultan@gmail.com>
Samuele Pedroni <pedronis@lucediurna.net>
Sanjay Menakuru <balasanjay@gmail.com>
Sarah Adams <shadams@gmail.com>
Sascha Brawer <sascha@brawer.ch>
Sasha Lionheart <lionhearts@gmail.com>
Sasha Sobol <sasha@scaledinference.com>
Scott Barron <scott.barron@gmail.com>
Scott Bell <scott@scctsm.com>
Scott Ferguson <scottwfer@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@netflix.com>
Scott Schwartz <scotts@golang.org>
Scott Van Woudenberg <scottvw@gmail.com>
Sean Burford <sburford@gmail.com>
Sean Chittenden <seanc@joyent.com>
Sean Christopherson <sean.j christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@gmail.com>
Sean Rees <sean@erifax.org>
Sebastien Binet <seb.binet@gmail.com>
S bastien Paolacci <sebastien.paolacci@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergey "SnakE" Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Mishin <sergeymishine@gmail.com>
Sergio Luis O. B. Correia <sergio@correia.cc>
Seth Hoenig <seth.a.hoenig@gmail.com>
Tom Bergan <tombergan@google.com>
Tom Heng <znm20070928@gmail.com>
Tom Linford <tomlinford@gmail.com>
Tom Szymanski <tgs@google.com>
Tom Wilkie <tom@weave.works>
Tommy Schaefer <tommy.schaefer@teecom.com>
Tonis Tiigi <tonistiigi@gmail.com>
Tony Walker <walkert.uk@gmail.com>
Tor Andersson <tor.andersson@gmail.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Toshiki Shima <hayabusa1419@gmail.com>
Totoro W <tw19881113@gmail.com>
Travis Cline <travis.cline@gmail.com>
Trevor Strohman <trevor.strohman@gmail.com>
Trey Lawrence <lawrence.trey@gmail.com>
Trey Roessig <trey.roessig@gmail.com>
Trey Tacon <ttacon@gmail.com>
Tristan Amini <tamin01@ca.ibm.com>
Tristan Colgate <tcolgate@gmail.com>
Tristan Oohry <oohry@gmail.com>
Trung Nguyen <trung.n.k@gmail.com>
Tudor Golubenco <tudor.g@gmail.com>
Tuo Shan <sturbo89@gmail.com> <shantuo@google.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <ttreat31@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
Ugorji Nwoke <ugorji@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Ulrich Kunitz <uli.kunitz@gmail.com>
Uriel Mangado <uriel@berlinblue.org>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grek <vadimprog@gmail.com>
Vadim Vygonets <unixdj@gmail.com>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Victor Chudnovsky <vchudnov/google.com>
Victor Vrantchan <vrancean+github@gmail.com>
Vikas Kedia <vikask/google.com>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts/hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vinu Rajashekar <vinutheraj@gmail.com>
Vish Subramanian <vish/google.com>
Vishvananda Ishaya <vishvananda@gmail.com>
Vitor De Mario <vitordemario@gmail.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Mihailenco <vladimir.webdev@gmail.com>
Vladimir Nikishenko <vova616@gmail.com>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Zellyn Hunter <zellyn@squareup.com> <zellyn@gmail.com>
Zev Goldstein <zev.goldstein@gmail.com>
Zhongwei Yao <zhongwei.yao@arm.com>
Ziad Hatahet <hatahet@gmail.com>
Zorion Arrizabalaga <zorionk@gmail.com>
<max.faceless.frei@gmail.com>
<faxriddinjon@gmail.com>
<zs349596@gmail.com>
<bronze1man@gmail.com>

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following disclaimer
  in the documentation and/or other materials provided with the
  distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.67 go-ansiterm 0.1
:fa152c58bc15761d0200cb75fe958b89a9d4888e
1.67.1 Available under license:

The MIT License (MIT)

Copyright (c) 2015 Microsoft Corporation

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

1.68 go-blackfriday 1.4

1.68.1 Available under license:

Blackfriday is distributed under the Simplified BSD License:

> Copyright 2011 Russ Ross
> All rights reserved.
> Redistribution and use in source and binary forms, with or without
> modification, are permitted provided that the following conditions
> are met:
> > 1. Redistributions of source code must retain the above copyright
>    notice, this list of conditions and the following disclaimer.
> > 2. Redistributions in binary form must reproduce the above
>    copyright notice, this list of conditions and the following
>    disclaimer in the documentation and/or other materials provided with
>    the distribution.
> > THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
> "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
> LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

1.69 go-cleanhttp 0.1
:ad28ea4487f05916463e2423a55166280e8254
b5

1.69.1 Available under license:
Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the
creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a
Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the
notice in Exhibit A, the Executable Form of such Source Code Form, and
Modifications of such Source Code Form, in each case including portions
thereof.

1.5. "Incompatible With Secondary Licenses"

means

a. that the initial Contributor has attached the notice described in
Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.
1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or
b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.
3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing.
The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party’s negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party’s ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses If You choose to distribute Source Code Form that is
Incompatible With Secondary Licenses under the terms of this version of
the License, the notice described in Exhibit B of this License must be
attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the
terms of the Mozilla Public License, v.
2.0. If a copy of the MPL was not
distributed with this file, You can
obtain one at
http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible
With Secondary Licenses", as defined by
the Mozilla Public License, v. 2.0.
Open Source Used In Edge and Fog Processing Module 1.6.0

1.70 go-cli 1.2

1.70.1 Available under license:

Copyright (C) 2013 Jeremy Saenz
All Rights Reserved.

MIT LICENSE

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.71 go-crypto

9419663f5a44be8b34ca85f08abc5fe1be11f8a3

1.71.1 Available under license:

# This source code was written by the Go contributors.
# The master list of contributors is in the main Go distribution,
# visible at https://tip.golang.org/contributors.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.

* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.72 **go-curve25519 1.6**

1.72.1 **Available under license :**

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following disclaimer
  in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
1.73 go-dockerclient 0.1
:3162ed100df52ad76c94cdf1b8b2a45d4f5e203d

1.73.1 Available under license:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

You can find the Docker license at the following link:
https://raw.githubusercontent.com/docker/docker/master/LICENSE
Copyright (c) 2013-2016, go-dockerclient authors
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.74 go-ed25519 1.6

1.74.1 Available under license:

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are
* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.75 go-net 0.1
:ef00b378c73f107bf44d5c9b69875255ce89b79

1.75.1 Available under license:

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.76 go-shutil 1.6

1.76.1 Available under license:
I guess Python's? If that doesn't apply then MIT. Have fun.

1.77 go-ssh 1.6

1.77.1 Available under license:
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
1.78 go-sys 0.1
:9bb9f0998d48b31547d975974935ae9b48c7a0
3c
1.78.1 Available under license:

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.79 go-winio 0.3.5-2 :gce2922f
1.79.1 Available under license:

The MIT License (MIT)

Copyright (c) 2015 Microsoft
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.80 go-yaml 2.0
:a5b47d31c556af34a302ce5d659e6fea44d90de0
1.80.1 Available under license:

The following files were ported to Go from C files of libyaml, and thus are still covered by their original copyright and license:

    apic.go
    emitterc.go
    parserc.go
    readerc.go
    scannerc.go
    writerc.go
    yamlh.go
    yamlprivateh.go

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.81 gojsonpointer 1.0

1.81.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2015 xeipuuv

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.82 gojsonreference 1.0

1.82.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

   (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2015 xeipuuv

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.83 gojsonschema 1.0
1.83.1 Available under license:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work
"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2015 xeipuuv

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2012 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.84 google-maps-dart 2.0.7
1.84.1 Available under license:

Copyright (c) 2012, Alexandre Ardhuin

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.85 gopass 1.6

1.85.1 Available under license:

Copyright (c) 2012 Chris Howey

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.86 goreq 1.6

1.86.1 Available under license:

The MIT License (MIT)

Copyright (c) 2013 Jonathan Leibiusky and Marcos Lilljedahl

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.87 graphql 0.13.2
1.87.1 Available under license :
   MIT License

Copyright (c) 2015-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.88 graphql-anywhere 4.1.14
1.88.1 Available under license :
   The MIT License (MIT)

Copyright (c) 2015 - 2016 Oleksandr Stubailo

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.89 graphql-java 8.0

1.90 graphql-tag 2.9.2
1.90.1 Available under license:
The MIT License (MIT)

Copyright (c) 2015 - 2016 Meteor Development Group, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.91 graphql-tools 3.0.5
1.91.1 Available under license:
The MIT License (MIT)

Copyright (c) 2015 - 2017 Meteor Development Group, Inc.
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.92 h2 1.4.195

1.93 Hamcrest Core 1.3
1.93.1 Available under license :
New BSD License
http://www.opensource.org/licenses/bsd-license.php

1.94 hibernate-jpa-2.1-api 1.0.0.Final
1.94.1 Available under license :
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="author" content="Mike Milinkovich, January 25, 2008"/>
<meta name="keywords" content="edl, legal, license"/>
<link href="//fonts.googleapis.com/css?family=Open+Sans:400,700,300,600,100" rel="stylesheet" type="text/css"/>
<link rel="shortcut icon" href="/eclipse.org-common/themes/solstice/public/images/favicon.ico"/>
<title>Eclipse Distribution License</title>
<link rel="stylesheet" href="/eclipse.org-common/themes/solstice/public/stylesheets/styles.min.css"/>
<meta property="og:description" content="Eclipse is probably best known as a Java IDE, but it is more: it is an IDE"/>
framework, a tools framework, an open source project, a community, an eco-system, and a foundation.”

Eclipse is probably best known as a Java IDE, but it is more: it is an IDE framework, a tools framework, an open source project, a community, an eco-system, and a foundation.”

Create account
Log in
Open Source Used In Edge and Fog Processing Module 1.6.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the Eclipse Foundation, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Use of the Eclipse Distribution License by any project at the Eclipse Foundation must be reviewed and unanimously approved by the Board of Directors.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.

Related Links

The standard Eclipse license is the Eclipse Public License.

EDL in plain HTML.
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE 
PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR 
DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS 
AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial 
code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program 
originate from and are distributed by that particular Contributor. A 
Contribution 'originates' from a Contributor if it was added to the 
Program by such Contributor itself or anyone acting on such 
Contributor's behalf. Contributions do not include additions to the 
Program which: (i) are separate modules of software distributed in 
conjunction with the Program under their own license agreement, and (ii)
are not derivative works of the Program.</p><p>"Contributor" means any person or entity that distributes the Program.</p><p>"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.</p><p>"Program" means the Contributions distributed in accordance with this Agreement.</p><p>"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.</p><p><b>2. GRANT OF RIGHTS</b></p><p>a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.</p><p>b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.</p><p>c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.
d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version
of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.</p>

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.</p>

</body>

</html>

1.95 http_multi_server 2.0.3

1.95.1 Available under license:

Copyright 2014, the Dart project authors. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
1.96 http_server-dart 0.9.6

1.96.1 Available under license:

Copyright 2015, the Dart project authors. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.97 ignite-core 2.3.0

1.97.1 Available under license:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.
"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright yyyy [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.
Apache Ignite Subcomponents:

The Apache Ignite project contains subcomponents with separate copyright notices and license terms. Your use of the source code for the these subcomponents is subject to the terms and conditions of the following licenses.

For SnapTree:
This product bundles SnapTree, which is available under a "3-clause BSD" license. For details, see https://github.com/nbronson/snaptree/blob/master/LICENSE.

For JSR 166 classes in "org.jsr166" package
This product bundles JSR-166 classes which are donated to public domain. For details, see CC0 1.0 Universal (1.0), Public Domain Dedication, http://creativecommons.org/publicdomain/zero/1.0/

For books used for tests in "org.apache.ignite.internal.processors.hadoop.books"
This code bundles book text files used for testing purposes which contain the following header:

This eBook is for the use of anyone anywhere at no cost and with almost no restrictions whatsoever. You may copy it, give it away or re-use it under the terms of the Project Gutenberg License included with this eBook or online at www.gutenberg.org

The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This software includes code from IntelliJ IDEA Community Edition
Copyright (C) JetBrains s.r.o.
https://www.jetbrains.com/idea/
Licensed under Apache License, Version 2.0.
http://search.maven.org/#artifactdetails%7Corg.jetbrains%7Cannotations%7C13.0%7Cjar

// List of ignite-core module's dependencies provided as a part of this distribution.
For JSR107 API and SPI (https://github.com/jsr107/jsr107spec) javax.cache:cache-api:jar:1.0.0

This product bundles JSR107 API and SPI which is available under the following:
JSR-000107 JCACHE 2.9 Public Review - Updated Specification License. For details, see

For ignite-shmem (http://www.gridgain.com) org.gridgain:ignite-shmem:jar:1.0.0

This product bundles ignite-shmem which is available under the following:
The Apache Software License, Version 2.0. For details, see http://www.apache.org/licenses/LICENSE-2.0.txt.

For IntelliJ IDEA Annotations (http://www.jetbrains.org) org.jetbrains:annotations:jar:13.0

This product bundles IntelliJ IDEA Annotations which is available under the following:
The Apache Software License, Version 2.0. For details, see http://www.apache.org/licenses/LICENSE-2.0.txt.

1.98 ignite-indexing 2.3.0
1.98.1 Available under license:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

ignite-indexing
Copyright 2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
// ------------------------------------------------------------------
// List of ignite-indexing module's dependencies provided as a part of this distribution.
// ------------------------------------------------------------------

For H2 Database Engine (http://www.h2database.com) com.h2database:h2:jar:1.4.195
This product bundles H2 Database Engine which is available under the following:
MPL 2.0 or EPL 1.0. For details, see http://h2database.com/html/license.html.

==============================================================================
For Commons Codec (http://commons.apache.org/codec/) commons-codec:commons-codec:jar:1.6
==============================================================================
This product bundles Commons Codec which is available under the following:
The Apache Software License, Version 2.0. For details, see http://www.apache.org/licenses/LICENSE-2.0.txt.

==============================================================================
For ignite-core (http://ignite.apache.org) org.apache.ignite:ignite-core:jar:2.3.0
==============================================================================
This product bundles ignite-core which is available under the following:
The Apache Software License, Version 2.0. For details, see http://www.apache.org/licenses/LICENSE-2.0.txt.

==============================================================================
org.apache.lucene:lucene-analyzers-common:jar:5.5.2
==============================================================================
This product bundles Lucene Common Analyzers which is available under the following:
Apache 2. For details, see http://www.apache.org/licenses/LICENSE-2.0.txt.

==============================================================================
For Lucene Core (http://lucene.apache.org/lucene-parent/lucene-core) org.apache.lucene:lucene-core:jar:5.5.2
==============================================================================
This product bundles Lucene Core which is available under the following:
Apache 2. For details, see http://www.apache.org/licenses/LICENSE-2.0.txt.

==============================================================================
==============================================================================
This product bundles Lucene QueryParsers which is available under the following:
Apache 2. For details, see http://www.apache.org/licenses/LICENSE-2.0.txt.

1.99 ignite-shmem 1.0.0

1.99.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.
"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and
Apache Ignite (incubating) Subcomponents:

The Apache Ignite project contains subcomponents with separate copyright notices and license terms. Your use of the source code for these subcomponents is subject to the terms and conditions of the following licenses.

For the pcollections library (https://github.com/blackdrag/pcollections)

The MIT License (MIT)

Copyright (c) <year> <copyright holders>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

For SnapTree:

BSD LICENSE

Copyright (c) 2009 Stanford University, unless otherwise specified.
All rights reserved.

This software was developed by the Pervasive Parallelism Laboratory of
Stanford University, California, USA.

Permission to use, copy, modify, and distribute this software in source or binary form for any purpose with or without fee is hereby granted, provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of Stanford University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.100 ignite-slf4j 2.3.0

1.100.1 Available under license:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.
"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License);
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

ignite-slf4j
Copyright 2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

// List of ignite-slf4j module's dependencies provided as a part of this distribution.

==============================================================================
For SLF4J API Module (http://www.slf4j.org) org.slf4j:slf4j-api:jar:1.7.7
==============================================================================
This product bundles SLF4J API Module which is available under the following:
MIT License. For details, see http://www.opensource.org/licenses/mit-license.php.

==============================================================================
For ignite-core (http://ignite.apache.org) org.apache.ignite:ignite-core:jar:2.3.0
==============================================================================
This product bundles ignite-core which is available under the following:
The Apache Software License, Version 2.0. For details, see http://www.apache.org/licenses/LICENSE-2.0.txt.

1.101 ignite-spring 2.3.0
1.101.1 Available under license:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License,"
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

ignite-spring
Copyright 2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
// ------------------------------------------------------------------
// List of ignite-spring module's dependencies provided as a part of this distribution.
// ------------------------------------------------------------------

==============================================================================
==============================================================================

This product bundles Spring AOP which is available under the following:
The Apache Software License, Version 2.0. For details, see http://www.apache.org/licenses/LICENSE-2.0.txt.

This product bundles Spring Beans which is available under the following:
The Apache Software License, Version 2.0. For details, see http://www.apache.org/licenses/LICENSE-2.0.txt.

For Spring Context (https://github.com/spring-projects/spring-framework) org.springframework:spring-context:jar:4.3.7.RELEASE

This product bundles Spring Context which is available under the following:
The Apache Software License, Version 2.0. For details, see http://www.apache.org/licenses/LICENSE-2.0.txt.

For Spring Core (https://github.com/spring-projects/spring-framework) org.springframework:spring-core:jar:4.3.7.RELEASE

This product bundles Spring Core which is available under the following:
The Apache Software License, Version 2.0. For details, see http://www.apache.org/licenses/LICENSE-2.0.txt.


This product bundles Spring Expression Language (SpEL) which is available under the following:
The Apache Software License, Version 2.0. For details, see http://www.apache.org/licenses/LICENSE-2.0.txt.


This product bundles Spring JDBC which is available under the following:
The Apache Software License, Version 2.0. For details, see http://www.apache.org/licenses/LICENSE-2.0.txt.


This product bundles Spring Transaction which is available under the following:
The Apache Software License, Version 2.0. For details, see http://www.apache.org/licenses/LICENSE-2.0.txt.

For Commons Logging (http://commons.apache.org/logging) commons-logging:commons-logging:jar:1.1.1

This product bundles Commons Logging which is available under the following:
The Apache Software License, Version 2.0. For details, see http://www.apache.org/licenses/LICENSE-2.0.txt.
For ignite-core (http://ignite.apache.org) org.apacheignite:ignite-core:jar:2.3.0

This product bundles ignite-core which is available under the following:
The Apache Software License, Version 2.0. For details, see http://www.apache.org/licenses/LICENSE-2.0.txt.

For ignite-indexing (http://ignite.apache.org) org.apacheignite:ignite-indexing:jar:2.3.0

This product bundles ignite-indexing which is available under the following:
The Apache Software License, Version 2.0. For details, see http://www.apache.org/licenses/LICENSE-2.0.txt.

1.102 intl 0.15.0

1.102.1 Available under license:

Copyright 2013, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.103 iterall 1.2.2
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This copy of Jackson JSON processor annotations is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.salaranta@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.

## Licensing

---

Open Source Used In Edge and Fog Processing Module 1.6.0

990
Jackson core and extension components may be licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
This copy of Jackson JSON processor streaming parser/generator is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

1.106 jackson-core 2.9.4

1.106.1 Available under license :

  # Jackson JSON processor

  Jackson is a high-performance, Free/Open Source JSON processing library.
  It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
  been in development since 2007.
  It is currently developed by a community of developers, as well as supported
  commercially by FasterXML.com.

  ## Licensing

  Jackson core and extension components may be licensed under different licenses.
  To find the details that apply to this artifact see the accompanying LICENSE file.
  For more information, including possible other licensing options, contact
  FasterXML.com (http://fasterxml.com).

  ## Credits

  A list of contributors may be found from CREDITS file, which is included
  in some artifacts (usually source distributions); but is always available
  from the source code management (SCM) system project uses.
  This copy of Jackson JSON processor streaming parser/generator is licensed under the
  Apache (Software) License, version 2.0 ("the License").
  See the License for details about distribution rights, and the
  specific rights regarding derivate works.
You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

1.107 jackson-coreutils 1.6
1.107.1 Available under license:

Apache License  
Version 2.0, January 2004  
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).
"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

This software is dual-licensed under:

- the Lesser General Public License (LGPL) version 3.0 or, at your option, any later version;
- the Apache Software License (ASL) version 2.0.

The text of both licenses is included (under the names LGPL-3.0.txt and ASL-2.0.txt respectively).

Direct link to the sources:

- LGPL 3.0: https://www.gnu.org/licenses/lgpl-3.0.txt
- ASL 2.0: http://www.apache.org/licenses/LICENSE-2.0.txt

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.
"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from
a header file that is part of the Library. You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the
Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license
document.


You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:

a) Give prominent notice with each copy of the Combined Work that
the Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license
document.

c) For a Combined Work that displays copyright notices during
execution, include the copyright notice for the Library among
these notices, as well as a reference directing the user to the
copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this
License, and the Corresponding Application Code in a form
suitable for, and under terms that permit, the user to
recombine or relink the Application with a modified version of
the Linked Version to produce a modified Combined Work, in the
manner specified by section 6 of the GNU GPL for conveying
Corresponding Source.

1) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (a) uses at run time
a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version
of the Library that is interface-compatible with the Linked
e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.108 jackson-databind 2.9.4
1.108.1 Available under license :

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses. This copy of Jackson JSON processor databind module is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

1.109 jackson-databind 2.8.10
1.109.1 Available under license :

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (http://fasterxml.com).

## Credits

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

This copy of Jackson JSON processor databind module is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

1.110 jackson-databind 2.8.11.1

1.110.1 **Available under license**:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.
This copy of Jackson JSON processor databind module is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

1.111 jackson-dataformat-msgpack 0.8.16

1.111.1 Available under license:

```xml
<component name="CopyrightManager">
<settings default="msgpack">
    <LanguageOptions name="JAVA">
        <option name="fileTypeOverride" value="3" />
        <option name="addBlankAfter" value="false" />
        <option name="block" value="false" />
        <option name="prefixLines" value="false" />
    </LanguageOptions>
    <LanguageOptions name="Scala">
        <option name="fileTypeOverride" value="3" />
        <option name="addBlankAfter" value="false" />
        <option name="block" value="false" />
        <option name="prefixLines" value="false" />
    </LanguageOptions>
    <LanguageOptions name="__TEMPLATE__">
        <option name="addBlankAfter" value="false" />  
    </LanguageOptions>
</settings>
</component>

<component name="CopyrightManager">
<copyright>
    <option name="allowReplaceKeyword" value="" />
    <option name="myName" value="msgpack" />
    <option name="keyword" value="MessagePack for Java" />
    <option name="notice" value="&lt;#10;MessagePack for Java&amp;#10;&amp;#10; Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0;&amp;#10;&amp;#10; Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.&amp;#10;" />
</copyright>
</component>
```

This product includes the software developed by third-party:
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of,
"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]
Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

// Generated from http://www.opensource.org/licenses/bsd-license.php
Copyright (c) 2011, Paul Phillips. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.112 jackson-dataformat-yaml 2.9.1
1.112.1 Available under license :

This copy of Jackson JSON processor YAML module is licensed under the Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the specific rights regarding derivate works.
You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

# 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.

## Licensing

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (http://fasterxml.com).

## Credits

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

1.113 jackson-dataformat-yaml 2.9.6

1.113.1 Available under license:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses. This copy of Jackson JSON processor YAML module is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

1.114 java-dataloader 2.0.2

1.115 JavaBeans Activation Framework (JAF)

1.1

1.115.1 Available under license:

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0 1.

Definitions.

1.1. Contributor means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable means the Covered Software in any form other than Source Code.

1.5. Initial Developer means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License means this document.

1.8. Licensable means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications means the Source Code and Executable form of any of the following: A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous
Modifications; B. Any new file that contains any part of the Original Software or previous Modification; or C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You (or Your) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, You includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant. Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof);

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License;

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant. Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer
for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code. Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications. The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices. You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms. You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions. You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipients rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.
3.6. Larger Works. You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions. Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions. You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions. When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY. COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN AS IS BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as Participant) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if
within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY. UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS. The Covered Software is a commercial item, as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of commercial computer software (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and commercial computer software documentation as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS. This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdictions conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS. As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE
(CDDL) The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

/*
 * The contents of this file are subject to the terms
 * of the Common Development and Distribution License
 * (the "License"). You may not use this file except
 * in compliance with the License.
 *
 * You can obtain a copy of the license at
 * glassfish/bootstrap/legal/CDDLv1.0.txt or
 * https://glassfish.dev.java.net/public/CDDLv1.0.html.
 * See the License for the specific language governing
 * permissions and limitations under the License.
 *
 * When distributing Covered Code, include this CDDL
 * HEADER in each file and include the License file at
 * glassfish/bootstrap/legal/CDDLv1.0.txt. If applicable,
 * add the following below this CDDL HEADER, with the
 * fields enclosed by brackets "[]" replaced with your
 * own identifying information: Portions Copyright [yyyy]
 * [name of copyright owner]
 */

1.116 JavaMail API jar 1.4.3

1.116.1 Available under license:

License names:
CDDL
GPLv2+CE

1.117 jcommander 1.72

1.118 jdbc-postgres 8.4.702

1.118.1 Available under license:

Copyright (c) 1997-2008, PostgreSQL Global Development Group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the PostgreSQL Global Development Group nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.119 jgrapht-core 1.1.0

1.120 JLine 2.12
1.120.1 Available under license :
The BSD License
http://www.opensource.org/licenses/bsd-license.php

1.121 jna 4.5.2

1.122 jopt-simple 5.0.3
1.122.1 Available under license :
The MIT License
http://www.opensource.org/licenses/mit-license.php
1.123 js-tokens 4.0.0

1.123.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014, 2015, 2016, 2017, 2018 Simon Lydell

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.124 json-patch 1.6

1.124.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.
"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object
code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.
e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall
apply, that proxy’s public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

This software is dual-licensed under:

- the Lesser General Public License (LGPL) version 3.0 or, at your option, any later version;
- the Apache Software License (ASL) version 2.0.

The text of both licenses is included (under the names LGPL-3.0.txt and ASL-2.0.txt respectively).

Direct link to the sources:

- LGPL 3.0: https://www.gnu.org/licenses/lgpl-3.0.txt
- ASL 2.0: http://www.apache.org/licenses/LICENSE-2.0.txt

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with
5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.
APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.125 json-schema-core 1.2.8
1.125.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.
"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from
a header file that is part of the Library. You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the
Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license
document.


You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:

a) Give prominent notice with each copy of the Combined Work that
the Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license
document.

c) For a Combined Work that displays copyright notices during
execution, include the copyright notice for the Library among
these notices, as well as a reference directing the user to the
copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this
License, and the Corresponding Application Code in a form
suitable for, and under terms that permit, the user to
recombine or relink the Application with a modified version of
the Linked Version to produce a modified Combined Work, in the
manner specified by section 6 of the GNU GPL for conveying
Corresponding Source.

1) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (a) uses at run time
a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version
of the Library that is interface-compatible with the Linked
Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

This software is dual-licensed under:

- the Lesser General Public License (LGPL) version 3.0 or, at your option, any later version;
- the Apache Software License (ASL) version 2.0.

The text of both licenses is included (under the names LGPL-3.0.txt and ASL-2.0.txt respectively).

Direct link to the sources:

- LGPL 3.0: https://www.gnu.org/licenses/lgpl-3.0.txt
- ASL 2.0: http://www.apache.org/licenses/LICENSE-2.0.txt

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works; in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.126 json-schema-validator 0.1.13

1.127 json-schema-validator 2.2.8

1.127.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.
0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or
b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.
1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

This software is dual-licensed under:

- the Lesser General Public License (LGPL) version 3.0 or, at your option, any later version;
- the Apache Software License (ASL) version 2.0.

The text of both licenses is included (under the names LGPL-3.0.txt and ASL-2.0.txt respectively).

Direct link to the sources:

- LGPL 3.0: https://www.gnu.org/licenses/lgpl-3.0.txt
- ASL 2.0: http://www.apache.org/licenses/LICENSE-2.0.txt

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.
"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.128 Json.NET 11.0.2

1.128.1 Available under license:

Copyright (c) 2007 James Newton-King

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies
or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2007 James Newton-King

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.129 jsr305 3.0.1
1.129.1 Available under license :
   The Apache Software License, Version 2.0
   http://www.apache.org/licenses/LICENSE-2.0.txt

1.130 JUnit 4.12
1.130.1 Available under license :
   JUnit
   Eclipse Public License - v 1.0

   THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the
Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient’s responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:
a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor (“Commercial Contributor”) hereby agrees to defend and indemnify every other Contributor (“Indemnified Contributor”) against any losses, damages and costs (collectively “Losses”) arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to
serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

1.131 junit-jupiter-api 5.0.1

1.131.1 Available under license:
Open Source Licenses

This product may include a number of subcomponents with separate copyright notices and license terms. Your use of the source code for these subcomponents is subject to the terms and conditions of the subcomponent's license, as noted in the LICENSE-<subcomponent>.md files.

Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE (AGREEMENT). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

### 1. Definitions

Contribution means:
* **a)** in the case of the initial Contributor, the initial content Distributed under this Agreement, and
* **b)** in the case of each subsequent Contributor:
  * **i)** changes to the Program, and
  * **ii)** additions to the Program;
where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution originates from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.
Contributor means any person or entity that Distributes the Program.

Licensed Patents mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

Program means the Contributions Distributed in accordance with this Agreement.

Recipient means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

Derivative Works shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

Modified Works shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

Distribute means the acts of **a)** distributing or **b)** making available in any manner that enables the transfer of a copy.

Source Code means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

Secondary License means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

### 2. Grant of Rights

**a)** Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

**b)** Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

**c)** Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute
the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

**d)** Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

**e)** Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

### 3. Requirements

**3.1** If a Contributor Distributes the Program in any form, then:

* **a)** the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

* **b)** the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:
  * **i)** effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
  * **ii)** effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
  * **iii)** does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and
  * **iv)** requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

**3.2** When the Program is Distributed as Source Code:

* **a)** it must be made available under this Agreement, or if the Program **(i)** is combined with other material in a separate file or files made available under a Secondary License, and **(ii)** the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and
* **b)** a copy of this Agreement must be included with each copy of the Program.

**3.3** Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability (notices) contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

### 4. Commercial Distribution

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor (Commercial Contributor) hereby agrees to defend and indemnify every other Contributor
(Indemnified Contributor) against any losses, damages and costs (collectively Losses) arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: **(a)** promptly notify the Commercial Contributor in writing of such claim, and **(b)** allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

### 5. No Warranty

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN AS IS BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

### 6. Disclaimer of Liability

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

### 7. General

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

#### Exhibit A - Form of Secondary Licenses Notice

> This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}.

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

### 1.132 junit-platform-commons 1.0.1

1.132.1 Available under license:

Open Source Licenses

This product may include a number of subcomponents with separate copyright notices and license terms. Your use of the source code for these subcomponents is subject to the terms and conditions of the subcomponent's license, as noted in the LICENSE-<subcomponent>.md
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE (AGREEMENT). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT’S ACCEPTANCE OF THIS AGREEMENT.

### 1. Definitions

Contribution means:
* **a)** in the case of the initial Contributor, the initial content Distributed under this Agreement, and
* **b)** in the case of each subsequent Contributor:
  * **i)** changes to the Program, and
  * **ii)** additions to the Program:

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution originates from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

Contributor means any person or entity that Distributes the Program.

Licensed Patents mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

Program means the Contributions Distributed in accordance with this Agreement.

Recipient means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

Derivative Works shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

Modified Works shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

Distribute means the acts of **a)** distributing or **b)** making available in any manner that enables the transfer of a copy.

Source Code means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

Secondary License means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.
### 2. Grant of Rights

**a)** Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

**b)** Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

**c)** Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

**d)** Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

**e)** Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

### 3. Requirements

**3.1** If a Contributor Distributes the Program in any form, then:

* **a)** the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

* **b)** the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:
  * **i)** effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
  * **ii)** effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
  * **iii)** does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and
  * **iv)** requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.
**3.2** When the Program is Distributed as Source Code:

* **a)** it must be made available under this Agreement, or if the Program **(i)** is combined with other material in a separate file or files made available under a Secondary License, and **(ii)** the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and
* **b)** a copy of this Agreement must be included with each copy of the Program.

**3.3** Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability (notices) contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

### 4. Commercial Distribution

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor (Commercial Contributor) hereby agrees to defend and indemnify every other Contributor (Indemnified Contributor) against any losses, damages and costs (collectively Losses) arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: **a)** promptly notify the Commercial Contributor in writing of such claim, and **b)** allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

### 5. No Warranty

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN AS IS BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

### 6. Disclaimer of Liability
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

### 7. General

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

#### Exhibit A - Form of Secondary Licenses Notice

> This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}. 

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

### 1.133 legit-dart 0.1.1

#### 1.133.1 Available under license:

```
```

The MIT License (MIT)

Copyright (c) 2015 DirectCode

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

### 1.134 libphonenumber 8.0.0

#### 1.134.1 Available under license:

The Apache Software License, Version 2.0

http://www.apache.org/licenses/LICENSE-2.0.txt
1.135 lodash 4.17.4
1.135.1 Available under license:

Copyright JS Foundation and other contributors <https://js.foundation/>

Based on Underscore.js, copyright Jeremy Ashkenas,
DocumentCloud and Investigative Reporters & Editors <http://underscorejs.org/>

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/lodash/lodash

The following license applies to all parts of this software except as
documented below:

=====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code displayed within the prose of the
documentation.

CC0: http://creativecommons.org/publicdomain/zero/1.0/

=====

Files located in the node_modules and vendor directories are externally
maintained libraries used by this software which have their own licenses; we recommend you read them, as their terms may differ from the terms above.

1.136 lodash.merge 4.6.1

1.136.1 Available under license:

Copyright JS Foundation and other contributors <https://js.foundation/>

Based on Underscore.js, copyright Jeremy Ashkenas,
DocumentCloud and Investigative Reporters & Editors <http://underscorejs.org/>

This software consists of voluntary contributions made by many individuals. For exact contribution history, see the revision history available at https://github.com/lodash/lodash

The following license applies to all parts of this software except as documented below:

====

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample code is defined as all source code displayed within the prose of the documentation.

CC0: http://creativecommons.org/publicdomain/zero/1.0/
Files located in the node_modules and vendor directories are externally maintained libraries used by this software which have their own licenses; we recommend you read them, as their terms may differ from the terms above.

1.137 logging 0.20.1

1.138 logrus 0.10.0-38 :g3ec0642

1.138.1 Available under license :
The MIT License (MIT)

Copyright (c) 2014 Simon Eskildsen

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.139 loose-envify 1.4.0

1.139.1 Available under license :
The MIT License (MIT)

Copyright (c) 2015 Andres Suarez <zertosh@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.140 lua-resty-hmac 0.02

1.141 lua-resty-http 0.12

1.141.1 Available under license:

Copyright (c) 2013, James Hurst
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
1.142 lua-resty-jwt 0.1.11

1.142.1 Available under license:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications...
represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.143 lua-resty-openidc 1.6.1

1.143.1 Available under license :

/**************************************************************/

* Copyright (C) 2014-2017 Ping Identity Corporation
* All rights reserved.
* * Ping Identity Corporation
* * 1099 18th St Suite 2950
* * Denver, CO 80202
* * 303.468.2900
* * http://www.pingidentity.com
* *
* DISCLAIMER OF WARRANTIES:
* *
* THE SOFTWARE PROVIDED HEREUNDER IS PROVIDED ON AN "AS IS" BASIS, WITHOUT
* ANY WARRANTIES OR REPRESENTATIONS EXPRESS, IMPLIED OR STATUTORY; INCLUDING,
* WITHOUT LIMITATION, WARRANTIES OF QUALITY, PERFORMANCE, NONINFRINGEMENT,
* MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NOR ARE THERE ANY
* WARRANTIES CREATED BY A COURSE OR DEALING, COURSE OF PERFORMANCE OR TRADE
* USAGE. FURTHERMORE, THERE ARE NO WARRANTIES THAT THE SOFTWARE WILL MEET
* YOUR NEEDS OR BE FREE FROM ERRORS, OR THAT THE OPERATION OF THE SOFTWARE
* WILL BE UNINTERRUPTED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR
* CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
* EXEMPLARY, OR CONSEQUENTIAL DAMAGES HOWEVER CAUSED AND ON ANY THEORY OF
* LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
* NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
* SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
* /

Apache License
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions...
to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.144 lua-resty-session 2.22
1.144.1 Available under license:
Copyright (c) 2014 2017, Aapo Talvensaari
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.145 lucene-analyzers-common 5.5.2
1.145.1 Available under license:
Apache Lucene
Copyright 2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Includes software from other Apache Software Foundation projects,
including, but not limited to:
- Apache Ant
- Apache Jakarta Regexp
- Apache Commons
- Apache Xerces

ICU4J, (under analysis/icu) is licensed under an MIT styles license
and Copyright (c) 1995-2008 International Business Machines Corporation and others

Some data files (under analysis/icu/src/data) are derived from Unicode data such
as the Unicode Character Database. See http://unicode.org/copyright.html for more
details.

Brics Automaton (under core/src/java/org/apache/lucene/util/automaton) is
BSD-licensed, created by Anders Mller. See http://www.brics.dk/automaton/

The levenshtein automata tables (under core/src/java/org/apache/lucene/util/automaton) were
automatically generated with the moman/finenight FSA library, created by
Jean-Philippe Barrette-LaPierre. This library is available under an MIT license,
see http://sites.google.com/site/rrettesite/moman and
http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from
the Apache CXF project and is Apache License 2.0.

The Google Code Prettify is Apache License 2.0.
See http://code.google.com/p/google-code-prettify/

JUnit (junit-4.10) is licensed under the Common Public License v. 1.0
See http://junit.sourceforge.net/cpl-v10.html

This product includes code (JaspellTernarySearchTrie) from Java Spelling Checkin
g Package (jaspell): http://jaspell.sourceforge.net/
License: The BSD License (http://www.opensource.org/licenses/bsd-license.php)

The snowball stemmers in
    analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
    analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
    http://snowball.tartarus.org/

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

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


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

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

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

The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt. See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*_.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database. See http://unicode.org/copyright.html for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (http://morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary (http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike.
Morfologic includes data from BSD-licensed dictionary of Polish (SGJP) (http://sgjp.pl/morfeusz/)

Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original source code for this can be found at http://www.eclipse.org/jetty/downloads.php

===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

===========================================================================
mecab-ipadic-2.7.0-20070801 Notice
===========================================================================

Nara Institute of Science and Technology (NAIST), the copyright holders, disclaims all warranties with regard to this software, including all implied warranties of merchantability and fitness, in no event shall NAIST be liable for any special, indirect or consequential damages or any damages whatsoever resulting from loss of use, data or profits, whether in an action of contract, negligence or other tortuous action, arising out of or in connection with the use or performance of this software.

A large portion of the dictionary entries originate from ICOT Free Software. The following conditions for ICOT Free Software applies to the current dictionary as well.

Each User may also freely distribute the Program, whether in its original form or modified, to any third party or parties, PROVIDED that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear on, or be attached to, the Program, which is distributed substantially in the same form as set out herein and that such intended distribution, if actually made, will neither violate or otherwise contravene any of the laws and regulations of the countries having jurisdiction over the User or the intended distribution itself.
NO WARRANTY

The program was produced on an experimental basis in the course of the research and development conducted during the project and is provided to users as so produced on an experimental basis. Accordingly, the program is provided without any warranty whatsoever, whether express, implied, statutory or otherwise. The term "warranty" used herein includes, but is not limited to, any warranty of the quality, performance, merchantability and fitness for a particular purpose of the program and the nonexistence of any infringement or violation of any right of any third party.

Each user of the program will agree and understand, and be deemed to have agreed and understood, that there is no warranty whatsoever for the program and, accordingly, the entire risk arising from or otherwise connected with the program is assumed by the user.

Therefore, neither ICOT, the copyright holder, or any other organization that participated in or was otherwise related to the development of the program and their respective officials, directors, officers and other employees shall be held liable for any and all damages, including, without limitation, general, special, incidental and consequential damages, arising out of or otherwise in connection with the use or inability to use the program or any product, material or result produced or otherwise obtained by using the program, regardless of whether they have been advised of, or otherwise had knowledge of, the possibility of such damages at any time during the project or thereafter. Each user will be deemed to have agreed to the foregoing by his or her commencement of use of the program. The term "use" as used herein includes, but is not limited to, the use, modification, copying and distribution of the program and the production of secondary products from the program.

In the case where the program, whether in its original form or modified, was distributed or delivered to or received by a user from any person, organization or entity other than ICOT, unless it makes or grants independently of ICOT any specific warranty to the user in writing, such person, organization or entity, will also be exempted from and not be held liable to the user for any such damages as noted above as far as the program is concerned.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.
"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

   (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and limitations under the License.

Some code in core/src/java/org/apache/lucene/util/UnicodeUtil.java was derived from unicode conversion examples available at http://www.unicode.org/Public/PROGRAMS/CVTUTF. Here is the copyright from those sources:

/*
 * Copyright 2001-2004 Unicode, Inc.
 * 
 * Disclaimer
 * 
 * This source code is provided as is by Unicode, Inc. No claims are made as to fitness for any particular purpose. No warranties of any kind are expressed or implied. The recipient agrees to determine applicability of information provided. If this file has been purchased on magnetic or optical media from Unicode, Inc., the sole remedy for any claim will be exchange of defective media within 90 days of receipt.
 * 
 * Limitations on Rights to Redistribute This Code
 * 
 * Unicode, Inc. hereby grants the right to freely use the information supplied in this file in the creation of products supporting the Unicode Standard, and to make copies of this file in any form for internal or external distribution as long as this notice remains attached.
 */

Some code in core/src/java/org/apache/lucene/util/ArrayUtil.java was derived from Python 2.4.2 sources available at http://www.python.org. Full license is here:

http://www.python.org/download/releases/2.4.2/license/

Some code in core/src/java/org/apache/lucene/util/UnicodeUtil.java was derived from Python 3.1.2 sources available at http://www.python.org. Full license is here:

http://www.python.org/download/releases/3.1.2/license/

Some code in core/src/java/org/apache/lucene/util/automaton was derived from Brics automaton sources available at www.brics.dk/automaton/. Here is the copyright from those sources:
/*
 * Copyright (c) 2001-2009 Anders Moeller
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. The name of the author may not be used to endorse or promote products
 * derived from this software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */

The levenshtein automata tables in core/src/java/org/apache/lucene/util/automaton
were automatically generated with the moman/finenight FSA package.

Here is the copyright for those sources:

# Copyright (c) 2010, Jean-Philippe Barrette-LaPierre, <jpb@rrette.com>
#
# Permission is hereby granted, free of charge, to any person
# obtaining a copy of this software and associated documentation
# files (the "Software"), to deal in the Software without
# restriction, including without limitation the rights to use,
# copy, modify, merge, publish, distribute, sublicense, and/or sell
# copies of the Software, and to permit persons to whom the
# Software is furnished to do so, subject to the following
# conditions:
#
# The above copyright notice and this permission notice shall be
# included in all copies or substantial portions of the Software.
#
# THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
# EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
Some code in core/src/java/org/apache/lucene/util/UnicodeUtil.java was derived from ICU (http://www.icu-project.org)
The full license is available here:
http://source.icu-project.org/repos/icu/icu/trunk/license.html

/*
 * Copyright (C) 1999-2010, International Business Machines
 * Corporation and others. All Rights Reserved.
 *
 * Permission is hereby granted, free of charge, to any person obtaining a copy
 * of this software and associated documentation files (the "Software"), to deal
 * in the Software without restriction, including without limitation the rights
 * to use, copy, modify, merge, publish, distribute, and/or sell copies of the
 * Software, and to permit persons to whom the Software is furnished to do so,
 * provided that the above copyright notice(s) and this permission notice appear
 * in all copies of the Software and that both the above copyright notice(s) and
 * this permission notice appear in supporting documentation.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.
 * IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE
 * LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR
 * ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER
 * IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 *
 * Except as contained in this notice, the name of a copyright holder shall not
 * be used in advertising or otherwise to promote the sale, use or other
 * dealings in this Software without prior written authorization of the
 * copyright holder.
 */

The following license applies to the Snowball stemmers:

Copyright (c) 2001, Dr Martin Porter
Copyright (c) 2002, Richard Boulton
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
  * this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
  * Neither the name of the copyright holders nor the names of its contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following license applies to the KStemmer:

Copyright 2003,
Center for Intelligent Information Retrieval,
University of Massachusetts, Amherst.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. The names "Center for Intelligent Information Retrieval" and
   "University of Massachusetts" must not be used to endorse or promote products
   derived from this software without prior written permission. To obtain
   permission, contact info@ciir.cs.umass.edu.

THIS SOFTWARE IS PROVIDED BY UNIVERSITY OF MASSACHUSETTS AND OTHER CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following license applies to the Morfologik project:

Copyright (c) 2006 Dawid Weiss
Copyright (c) 2007-2011 Dawid Weiss, Marcin Mikowski
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Morfologik nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---

The dictionary comes from Morfologik project. Morfologik uses data from Polish ispell/myspell dictionary hosted at http://www.sjp.pl/slownik/en/ and is licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike. The part-of-speech tags were added in Morfologik project and are not found in the data from sjp.pl. The tagset is similar to IPI PAN tagset.

---
The following license applies to the Morfeusz project, used by org.apache.lucene.analysis.morfologik.

BSD-licensed dictionary of Polish (SGJP)
http://sgjp.pl/morfeusz/

Copyright 2011 Zygmunt Saloni, Wodzimierz Gruszczyski, Marcin Woliski, Robert Woosz

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY COPYRIGHT HOLDERS AS IS AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.146 lucene-core 5.5.2
1.146.1 Available under license:
Apache Lucene
Copyright 2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Includes software from other Apache Software Foundation projects, including, but not limited to:
- Apache Ant
- Apache Jakarta Regexp
- Apache Commons
- Apache Xerces

ICU4J, (under analysis/icu) is licensed under an MIT styles license and Copyright (c) 1995-2008 International Business Machines Corporation and others

Some data files (under analysis/icu/src/data) are derived from Unicode data such as the Unicode Character Database. See http://unicode.org/copyright.html for more details.

Brics Automaton (under core/src/java/org/apache/lucene/util/automaton) is BSD-licensed, created by Anders Mller. See http://www.brics.dk/automaton/

The levenshtein automata tables (under core/src/java/org/apache/lucene/util/automaton) were automatically generated with the moman/finenight FSA library, created by Jean-Philippe Barrette-LaPierre. This library is available under an MIT license, see http://sites.google.com/site/rrettesite/moman and http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from the Apache CXF project and is Apache License 2.0.

The Google Code Prettify is Apache License 2.0. See http://code.google.com/p/google-code-prettify/

JUnit (junit-4.10) is licensed under the Common Public License v. 1.0 See http://junit.sourceforge.net/cpl-v10.html

This product includes code (JaspellTernarySearchTrie) from Java Spelling Checkin g Package (jaspell): http://jaspell.sourceforge.net/ License: The BSD License (http://www.opensource.org/licenses/bsd-license.php)

The snowball stemmers in analysis/common/src/java/net/sf/snowball were developed by Martin Porter and Richard Boulton.

The snowball stopword lists in analysis/common/src/resources/org/apache/lucene/analysis/snowball were developed by Martin Porter and Richard Boulton.

The full snowball package is available from http://snowball.tartarus.org/

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

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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

The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt. See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database. See http://unicode.org/copyright.html for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (http://morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary (http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike.

Morfologic includes data from BSD-licensed dictionary of Polish (SGJP)
Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original source code for this can be found at http://www.eclipse.org/jetty/downloads.php

===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

===========================================================================
mecab-ipadic-2.7.0-20070801 Notice
===========================================================================

Nara Institute of Science and Technology (NAIST), the copyright holders, disclaims all warranties with regard to this software, including all implied warranties of merchantability and fitness, in no event shall NAIST be liable for any special, indirect or consequential damages or any damages whatsoever resulting from loss of use, data or profits, whether in an action of contract, negligence or other tortuous action, arising out of or in connection with the use or performance of this software.

A large portion of the dictionary entries originate from ICOT Free Software. The following conditions for ICOT Free Software applies to the current dictionary as well.

Each User may also freely distribute the Program, whether in its original form or modified, to any third party or parties, PROVIDED that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear on, or be attached to, the Program, which is distributed substantially in the same form as set out herein and that such intended distribution, if actually made, will neither violate or otherwise contravene any of the laws and regulations of the countries having jurisdiction over the User or the intended distribution itself.

NO WARRANTY
The program was produced on an experimental basis in the course of the research and development conducted during the project and is provided to users as so produced on an experimental basis. Accordingly, the program is provided without any warranty whatsoever, whether express, implied, statutory or otherwise. The term “warranty” used herein includes, but is not limited to, any warranty of the quality, performance, merchantability and fitness for a particular purpose of the program and the nonexistence of any infringement or violation of any right of any third party.

Each user of the program will agree and understand, and be deemed to have agreed and understood, that there is no warranty whatsoever for the program and, accordingly, the entire risk arising from or otherwise connected with the program is assumed by the user.

Therefore, neither ICOT, the copyright holder, or any other organization that participated in or was otherwise related to the development of the program and their respective officials, directors, officers and other employees shall be held liable for any and all damages, including, without limitation, general, special, incidental and consequential damages, arising out of or otherwise in connection with the use or inability to use the program or any product, material or result produced or otherwise obtained by using the program, regardless of whether they have been advised of, or otherwise had knowledge of, the possibility of such damages at any time during the project or thereafter. Each user will be deemed to have agreed to the foregoing by his or her commencement of use of the program. The term “use” as used herein includes, but is not limited to, the use, modification, copying and distribution of the program and the production of secondary products from the program.

In the case where the program, whether in its original form or modified, was distributed or delivered to or received by a user from any person, organization or entity other than ICOT, unless it makes or grants independently of ICOT any specific warranty to the user in writing, such person, organization or entity, will also be exempted from and not be held liable to the user for any such damages as noted above as far as the program is concerned.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.
"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as “Not a Contribution.”

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and
Some code in core/src/java/org/apache/lucene/util/UnicodeUtil.java was derived from unicode conversion examples available at http://www.unicode.org/Public/PROGRAMS/CVTUTF. Here is the copyright from those sources:

/*
 * Copyright 2001-2004 Unicode, Inc.
 * 
 * Disclaimer
 * 
 * This source code is provided as is by Unicode, Inc. No claims are made as to fitness for any particular purpose. No warranties of any kind are expressed or implied. The recipient agrees to determine applicability of information provided. If this file has been purchased on magnetic or optical media from Unicode, Inc., the sole remedy for any claim will be exchange of defective media within 90 days of receipt.
 * 
 * Limitations on Rights to Redistribute This Code
 * 
 * Unicode, Inc. hereby grants the right to freely use the information supplied in this file in the creation of products supporting the Unicode Standard, and to make copies of this file in any form for internal or external distribution as long as this notice remains attached.
 */

Some code in core/src/java/org/apache/lucene/util/ArrayUtil.java was derived from Python 2.4.2 sources available at http://www.python.org. Full license is here:

http://www.python.org/download/releases/2.4.2/license/

Some code in core/src/java/org/apache/lucene/util/UnicodeUtil.java was derived from Python 3.1.2 sources available at http://www.python.org. Full license is here:

http://www.python.org/download/releases/3.1.2/license/

Some code in core/src/java/org/apache/lucene/util/automaton was derived from Brics automaton sources available at www.brics.dk/automaton/. Here is the copyright from those sources:
The Levenshtein automata tables in core/src/java/org/apache/lucene/util/automaton were automatically generated with the moman/finenight FSA package.

Here is the copyright for those sources:

```
# Copyright (c) 2010, Jean-Philippe Barrette-LaPierre, <jpb@rrette.com>
#
# Permission is hereby granted, free of charge, to any person
# obtaining a copy of this software and associated documentation
# files (the "Software"), to deal in the Software without
# restriction, including without limitation the rights to use,
# copy, modify, merge, publish, distribute, sublicense, and/or sell
# copies of the Software, and to permit persons to whom the
# Software is furnished to do so, subject to the following
# conditions:
#
# The above copyright notice and this permission notice shall be
# included in all copies or substantial portions of the Software.
#
# THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
# EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
# OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
```
Some code in core/src/java/org/apache/lucene/util/UnicodeUtil.java was derived from ICU (http://www.icu-project.org)

The full license is available here:
http://source.icu-project.org/repos/icu/icu/trunk/license.html

/*
 * Copyright (C) 1999-2010, International Business Machines
 * Corporation and others. All Rights Reserved.
 *
 * Permission is hereby granted, free of charge, to any person obtaining a copy
 * of this software and associated documentation files (the "Software"), to deal
 * in the Software without restriction, including without limitation the rights
 * to use, copy, modify, merge, publish, distribute, and/or sell copies of the
 * Software, and to permit persons to whom the Software is furnished to do so,
 * provided that the above copyright notice(s) and this permission notice appear
 * in all copies of the Software and that both the above copyright notice(s) and
 * this permission notice appear in supporting documentation.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.
 * IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE
 * LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR
 * ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER
 * IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 *
 * Except as contained in this notice, the name of a copyright holder shall not
 * be used in advertising or otherwise to promote the sale, use or other
 * dealings in this Software without prior written authorization of the
 * copyright holder.
 */

The following license applies to the Snowball stemmers:

Copyright (c) 2001, Dr Martin Porter
Copyright (c) 2002, Richard Boulton
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
* this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* Neither the name of the copyright holders nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following license applies to the KStemmer:

Copyright 2003,
Center for Intelligent Information Retrieval,
University of Massachusetts, Amherst.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. The names "Center for Intelligent Information Retrieval" and
   "University of Massachusetts" must not be used to endorse or promote products
   derived from this software without prior written permission. To obtain
   permission, contact info@ciir.cs.umass.edu.

THIS SOFTWARE IS PROVIDED BY UNIVERSITY OF MASSACHUSETTS AND OTHER CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following license applies to the Morfologik project:

Copyright (c) 2006 Dawid Weiss
Copyright (c) 2007-2011 Dawid Weiss, Marcin Mikowski
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Morfologik nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---

The dictionary comes from Morfologik project. Morfologik uses data from Polish ispell/myspell dictionary hosted at http://www.sjp.pl/slownik/en/ and is licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike. The part-of-speech tags were added in Morfologik project and are not found in the data from sjp.pl. The tagset is similar to IPI PAN tagset.

---
The following license applies to the Morfeusz project, used by org.apache.lucene.analysis.morfologik.

BSD-licensed dictionary of Polish (SGJP)
http://sgjp.pl/morfeusz/

Copyright 2011 Zygmunt Saloni, Wodzimierz Gruszczyski, Marcin Woliski, Robert Woosz

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY COPYRIGHT HOLDERS AS IS AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.147 lucene-queries 5.5.2
1.147.1 Available under license:
Apache Lucene
Copyright 2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Includes software from other Apache Software Foundation projects, including, but not limited to:
- Apache Ant
- Apache Jakarta Regexp
- Apache Commons
- Apache Xerces

ICU4J, (under analysis/icu) is licensed under an MIT styles license and Copyright (c) 1995-2008 International Business Machines Corporation and others

Some data files (under analysis/icu/src/data) are derived from Unicode data such as the Unicode Character Database. See http://unicode.org/copyright.html for more details.

Brics Automaton (under core/src/java/org/apache/lucene/util/automaton) is BSD-licensed, created by Anders Miller. See http://www.brics.dk/automaton/

The levenshtein automata tables (under core/src/java/org/apache/lucene/util/automaton) were automatically generated with the moman/finenight FSA library, created by Jean-Philippe Barrette-LaPierre. This library is available under an MIT license, see http://sites.google.com/site/rrettesite/moman and http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from the Apache CXF project and is Apache License 2.0.

The Google Code Prettify is Apache License 2.0.
See http://code.google.com/p/google-code-prettify/

JUnit (junit-4.10) is licensed under the Common Public License v. 1.0
See http://junit.sourceforge.net/cpl-v10.html

This product includes code (JaspellTernarySearchTrie) from Java Spelling Checkin g Package (jaspell): http://jaspell.sourceforge.net/
License: The BSD License (http://www.opensource.org/licenses/bsd-license.php)

The snowball stemmers in
   analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
   analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
   http://snowball.tartarus.org/

The KStem stemmer in
   analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst) under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come with a default
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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

The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*_.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database.
See http://unicode.org/copyright.html for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (http://morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary (http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike.

Morfologic includes data from BSD-licensed dictionary of Polish (SGJP) (http://sgjp.pl/morfeusz/)
Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original source code for this can be found at http://www.eclipse.org/jetty/downloads.php

===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

===========================================================================
mecab-ipadic-2.7.0-20070801 Notice
===========================================================================

Nara Institute of Science and Technology (NAIST),
the copyright holders, disclaims all warranties with regard to this
software, including all implied warranties of merchantability and
fitness, in no event shall NAIST be liable for
any special, indirect or consequential damages or any damages
whatsoever resulting from loss of use, data or profits, whether in an
action of contract, negligence or other tortuous action, arising out
of or in connection with the use or performance of this software.

A large portion of the dictionary entries
originate from ICOT Free Software. The following conditions for ICOT
Free Software applies to the current dictionary as well.

Each User may also freely distribute the Program, whether in its
original form or modified, to any third party or parties, PROVIDED
that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
on, or be attached to, the Program, which is distributed substantially
in the same form as set out herein and that such intended
distribution, if actually made, will neither violate or otherwise
contravene any of the laws and regulations of the countries having
jurisdiction over the User or the intended distribution itself.

NO WARRANTY
The program was produced on an experimental basis in the course of the research and development conducted during the project and is provided to users as so produced on an experimental basis. Accordingly, the program is provided without any warranty whatsoever, whether express, implied, statutory or otherwise. The term "warranty" used herein includes, but is not limited to, any warranty of the quality, performance, merchantability and fitness for a particular purpose of the program and the nonexistence of any infringement or violation of any right of any third party.

Each user of the program will agree and understand, and be deemed to have agreed and understood, that there is no warranty whatsoever for the program and, accordingly, the entire risk arising from or otherwise connected with the program is assumed by the user.

Therefore, neither ICOT, the copyright holder, or any other organization that participated in or was otherwise related to the development of the program and their respective officials, directors, officers and other employees shall be held liable for any and all damages, including, without limitation, general, special, incidental and consequential damages, arising out of or otherwise in connection with the use or inability to use the program or any product, material or result produced or otherwise obtained by using the program, regardless of whether they have been advised of, or otherwise had knowledge of, the possibility of such damages at any time during the project or thereafter. Each user will be deemed to have agreed to the foregoing by his or her commencement of use of the program. The term "use" as used herein includes, but is not limited to, the use, modification, copying and distribution of the program and the production of secondary products from the program.

In the case where the program, whether in its original form or modified, was distributed or delivered to or received by a user from any person, organization or entity other than ICOT, unless it makes or grants independently of ICOT any specific warranty to the user in writing, such person, organization or entity, will also be exempted from and not be held liable to the user for any such damages as noted above as far as the program is concerned.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licenser" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licenser for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licenser or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.
Some code in core/src/java/org/apache/lucene/util/UnicodeUtil.java was derived from unicode conversion examples available at http://www.unicode.org/Public/PROGRAMS/CVTUTF. Here is the copyright from those sources:

/*
 * Copyright 2001-2004 Unicode, Inc.
 *
 * Disclaimer
 *
 * This source code is provided as is by Unicode, Inc. No claims are
 * made as to fitness for any particular purpose. No warranties of any
 * kind are expressed or implied. The recipient agrees to determine
 * applicability of information provided. If this file has been
 * purchased on magnetic or optical media from Unicode, Inc., the
 * sole remedy for any claim will be exchange of defective media
 * within 90 days of receipt.
 *
 * Limitations on Rights to Redistribute This Code
 *
 * Unicode, Inc. hereby grants the right to freely use the information
 * supplied in this file in the creation of products supporting the
 * Unicode Standard, and to make copies of this file in any form
 * for internal or external distribution as long as this notice
 * remains attached.
 */

Some code in core/src/java/org/apache/lucene/util/ArrayUtil.java was derived from Python 2.4.2 sources available at http://www.python.org. Full license is here:

http://www.python.org/download/releases/2.4.2/license/

Some code in core/src/java/org/apache/lucene/util/UnicodeUtil.java was derived from Python 3.1.2 sources available at http://www.python.org. Full license is here:

http://www.python.org/download/releases/3.1.2/license/

Some code in core/src/java/org/apache/lucene/util/automaton was derived from Brics automaton sources available at www.brics.dk/automaton/. Here is the copyright from those sources:

/*
* Copyright (c) 2001-2009 Anders Moeller
* All rights reserved.
* 
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. The name of the author may not be used to endorse or promote products
* derived from this software without specific prior written permission.
* 
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR `AS IS` AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

The levenshtein automata tables in core/src/java/org/apache/lucene/util/automaton
were automatically generated with the moman/finenight FSA package.

Here is the copyright for those sources:

# Copyright (c) 2010, Jean-Philippe Barrette-LaPierre, <jpb@rrette.com>
#
# Permission is hereby granted, free of charge, to any person
# obtaining a copy of this software and associated documentation
# files (the "Software"), to deal in the Software without
# restriction, including without limitation the rights to use,
# copy, modify, merge, publish, distribute, sublicense, and/or sell
# copies of the Software, and to permit persons to whom the
# Software is furnished to do so, subject to the following
# conditions:
#
# The above copyright notice and this permission notice shall be
# included in all copies or substantial portions of the Software.
#
# THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
# EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
# OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
# NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
Some code in core/src/java/org/apache/lucene/util/UnicodeUtil.java was derived from ICU (http://www.icu-project.org)
The full license is available here:
http://source.icu-project.org/repos/icu/icu/trunk/license.html

/*
 * Copyright (C) 1999-2010, International Business Machines
 * Corporation and others.  All Rights Reserved.
 *
 * Permission is hereby granted, free of charge, to any person obtaining a copy
 * of this software and associated documentation files (the "Software"), to deal
 * in the Software without restriction, including without limitation the rights
 * to use, copy, modify, merge, publish, distribute, and/or sell copies of the
 * Software, and to permit persons to whom the Software is furnished to do so,
 * provided that the above copyright notice(s) and this permission notice appear
 * in all copies of the Software and that both the above copyright notice(s) and
 * this permission notice appear in supporting documentation.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.
 * IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE
 * LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR
 * ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER
 * IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 *
 * Except as contained in this notice, the name of a copyright holder shall not
 * be used in advertising or otherwise to promote the sale, use or other
 * dealings in this Software without prior written authorization of the
 * copyright holder.
 */

The following license applies to the Snowball stemmers:

Copyright (c) 2001, Dr Martin Porter
Copyright (c) 2002, Richard Boulton
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
* this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* Neither the name of the copyright holders nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following license applies to the KStemmer:

Copyright 2003,
Center for Intelligent Information Retrieval,
University of Massachusetts, Amherst.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. The names "Center for Intelligent Information Retrieval" and
"University of Massachusetts" must not be used to endorse or promote products
derived from this software without prior written permission. To obtain
permission, contact info@ciir.cs.umass.edu.

THIS SOFTWARE IS PROVIDED BY UNIVERSITY OF MASSACHUSETTS AND OTHER CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following license applies to the Morfologik project:

Copyright (c) 2006 Dawid Weiss
Copyright (c) 2007-2011 Dawid Weiss, Marcin Mikowski
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Morfologik nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---

The dictionary comes from Morfologik project. Morfologik uses data from Polish ispell/myspell dictionary hosted at http://www.sjp.pl/slownik/en/ and is licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike. The part-of-speech tags were added in Morfologik project and are not found in the data from sjp.pl. The tagset is similar to IPI PAN tagset.

---

The following license applies to the Morfeusz project,
used by org.apache.lucene.analysis.morfologik.

BSD-licensed dictionary of Polish (SGJP)
http://sgjp.pl/morfeusz/

Copyright 2011 Zygmunt Saloni, Wodzimierz Gruszczyński,
Marcin Woliski, Robert Woosz

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY COPYRIGHT HOLDERS AS IS AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.148 lucene-queryparser 5.5.2
1.148.1 Available under license :
  Apache Lucene
  Copyright 2014 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).

  Includes software from other Apache Software Foundation projects,
  including, but not limited to:
  - Apache Ant
  - Apache Jakarta Regexp
- Apache Commons
- Apache Xerces

ICU4J, (under analysis/icu) is licensed under an MIT styles license and Copyright (c) 1995-2008 International Business Machines Corporation and others

Some data files (under analysis/icu/src/data) are derived from Unicode data such as the Unicode Character Database. See http://unicode.org/copyright.html for more details.

Brics Automaton (under core/src/java/org/apache/lucene/util/automaton) is BSD-licensed, created by Anders Mller. See http://www.brics.dk/automaton/

The levenshtein automata tables (under core/src/java/org/apache/lucene/util/automaton) were automatically generated with the moman/finenight FSA library, created by Jean-Philippe Barrette-LaPierre. This library is available under an MIT license, see http://sites.google.com/site/rrettesite/moman and http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from the Apache CXF project and is Apache License 2.0.

The Google Code Prettify is Apache License 2.0. See http://code.google.com/p/google-code-prettify/

JUnit (junit-4.10) is licensed under the Common Public License v. 1.0 See http://junit.sourceforge.net/cpl-v10.html

This product includes code (JaspellTernarySearchTrie) from Java Spelling Checkin g Package (jaspell): http://jaspell.sourceforge.net/ License: The BSD License (http://www.opensource.org/licenses/bsd-license.php)

The snowball stemmers in analysis/common/src/java/net/sf/snowball were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in analysis/common/src/resources/org/apache/lucene/analysis/snowball were developed by Martin Porter and Richard Boulton.
The full snowball package is available from http://snowball.tartarus.org/

The KStem stemmer in analysis/common/src/org/apache/lucene/analysis/en was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst) under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian, and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:

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

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

The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.

See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database.

See http://unicode.org/copyright.html for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (http://morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary (http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike.

Morfologic includes data from BSD-licensed dictionary of Polish (SGJP) (http://sgjp.pl/morfeusz/)
Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original source code for this can be found at http://www.eclipse.org/jetty/downloads.php

===========================================================================

Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

===========================================================================

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

===========================================================================

mecab-ipadic-2.7.0-20070801 Notice

===========================================================================

Nara Institute of Science and Technology (NAIST),
the copyright holders, disclaims all warranties with regard to this software, including all implied warranties of merchantability and fitness, in no event shall NAIST be liable for any special, indirect or consequential damages or any damages whatsoever resulting from loss of use, data or profits, whether in an action of contract, negligence or other tortuous action, arising out of or in connection with the use or performance of this software.

A large portion of the dictionary entries originate from ICOT Free Software. The following conditions for ICOT Free Software applies to the current dictionary as well.

Each User may also freely distribute the Program, whether in its original form or modified, to any third party or parties, PROVIDED that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear on, or be attached to, the Program, which is distributed substantially in the same form as set out herein and that such intended distribution, if actually made, will neither violate or otherwise contravene any of the laws and regulations of the countries having jurisdiction over the User or the intended distribution itself.

NO WARRANTY

The program was produced on an experimental basis in the course of the
research and development conducted during the project and is provided to users as so produced on an experimental basis. Accordingly, the program is provided without any warranty whatsoever, whether express, implied, statutory or otherwise. The term “warranty” used herein includes, but is not limited to, any warranty of the quality, performance, merchantability and fitness for a particular purpose of the program and the nonexistence of any infringement or violation of any right of any third party.

Each user of the program will agree and understand, and be deemed to have agreed and understood, that there is no warranty whatsoever for the program and, accordingly, the entire risk arising from or otherwise connected with the program is assumed by the user.

Therefore, neither ICOT, the copyright holder, or any other organization that participated in or was otherwise related to the development of the program and their respective officials, directors, officers and other employees shall be held liable for any and all damages, including, without limitation, general, special, incidental and consequential damages, arising out of or otherwise in connection with the use or inability to use the program or any product, material or result produced or otherwise obtained by using the program, regardless of whether they have been advised of, or otherwise had knowledge of, the possibility of such damages at any time during the project or thereafter. Each user will be deemed to have agreed to the foregoing by his or her commencement of use of the program. The term “use” as used herein includes, but is not limited to, the use, modification, copying and distribution of the program and the production of secondary products from the program.

In the case where the program, whether in its original form or modified, was distributed or delivered to or received by a user from any person, organization or entity other than ICOT, unless it makes or grants independently of ICOT any specific warranty to the user in writing, such person, organization or entity, will also be exempted from and not be held liable to the user for any such damages as noted above as far as the program is concerned.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License” shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.
"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

   (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.
Some code in core/src/java/org/apache/lucene/util/UnicodeUtil.java was derived from unicode conversion examples available at http://www.unicode.org/Public/PROGRAMS/CVTUTF. Here is the copyright from those sources:

/*
 * Copyright 2001-2004 Unicode, Inc.
 * 
 * Disclaimer
 * 
 * This source code is provided as is by Unicode, Inc. No claims are made as to fitness for any particular purpose. No warranties of any kind are expressed or implied. The recipient agrees to determine applicability of information provided. If this file has been purchased on magnetic or optical media from Unicode, Inc., the sole remedy for any claim will be exchange of defective media within 90 days of receipt.
 * 
 * Limitations on Rights to Redistribute This Code
 * 
 * Unicode, Inc. hereby grants the right to freely use the information supplied in this file in the creation of products supporting the Unicode Standard, and to make copies of this file in any form for internal or external distribution as long as this notice remains attached.
 */

Some code in core/src/java/org/apache/lucene/util/ArrayUtil.java was derived from Python 2.4.2 sources available at http://www.python.org. Full license is here:

http://www.python.org/download/releases/2.4.2/license/

Some code in core/src/java/org/apache/lucene/util/UnicodeUtil.java was derived from Python 3.1.2 sources available at http://www.python.org. Full license is here:

http://www.python.org/download/releases/3.1.2/license/

Some code in core/src/java/org/apache/lucene/util/automaton was derived from Brics automaton sources available at www.brics.dk/automaton/. Here is the copyright from those sources:

/*
 * Copyright (c) 2001-2009 Anders Moeller
* All rights reserved.
* 
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. The name of the author may not be used to endorse or promote products
*    derived from this software without specific prior written permission.
* 
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

The levenshtein automata tables in core/src/java/org/apache/lucene/util/automaton were automatically generated with the moman/finenight FSA package.

Here is the copyright for those sources:

# Copyright (c) 2010, Jean-Philippe Barrette-LaPierre, <jpb@rrette.com>
#
# Permission is hereby granted, free of charge, to any person
# obtaining a copy of this software and associated documentation
# files (the "Software"), to deal in the Software without
# restriction, including without limitation the rights to use,
# copy, modify, merge, publish, distribute, sublicense, and/or sell
# copies of the Software, and to permit persons to whom the
# Software is furnished to do so, subject to the following
# conditions:
#
# The above copyright notice and this permission notice shall be
# included in all copies or substantial portions of the Software.
#
# THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
# EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
# OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
# NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
# HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
Some code in core/src/java/org/apache/lucene/util/UnicodeUtil.java was derived from ICU (http://www.icu-project.org)
The full license is available here:
http://source.icu-project.org/repos/icu/icu/trunk/license.html

/*
 * Copyright (C) 1999-2010, International Business Machines
 * Corporation and others. All Rights Reserved.
 *
 * Permission is hereby granted, free of charge, to any person obtaining a copy
 * of this software and associated documentation files (the "Software"), to deal
 * in the Software without restriction, including without limitation the rights
 * to use, copy, modify, merge, publish, distribute, and/or sell copies of the
 * Software, and to permit persons to whom the Software is furnished to do so,
 * provided that the above copyright notice(s) and this permission notice appear
 * in all copies of the Software and that both the above copyright notice(s) and
 * this permission notice appear in supporting documentation.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.
 * IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE
 * LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR
 * ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER
 * IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 *
 * Except as contained in this notice, the name of a copyright holder shall not
 * be used in advertising or otherwise to promote the sale, use or other
 * dealings in this Software without prior written authorization of the
 * copyright holder.
 */

The following license applies to the Snowball stemmers:

Copyright (c) 2001, Dr Martin Porter
Copyright (c) 2002, Richard Boulton
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 * this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following license applies to the KStemmer:

Copyright 2003,
Center for Intelligent Information Retrieval,
University of Massachusetts, Amherst.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The names "Center for Intelligent Information Retrieval" and "University of Massachusetts" must not be used to endorse or promote products derived from this software without prior written permission. To obtain permission, contact info@ciir.cs.umass.edu.

THIS SOFTWARE IS PROVIDED BY UNIVERSITY OF MASSACHUSETTS AND OTHER CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following license applies to the Morfologik project:

Copyright (c) 2006 Dawid Weiss
Copyright (c) 2007-2011 Dawid Weiss, Marcin Mikowski
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Morfologik nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---

The dictionary comes from Morfologik project. Morfologik uses data from Polish ispell/myspell dictionary hosted at http://www.sjp.pl/slownik/en/ and is licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike. The part-of-speech tags were added in Morfologik project and are not found in the data from sjp.pl. The tagset is similar to IPI PAN tagset.

---

The following license applies to the Morfeusz project, used by org.apache.lucene.analysis.morfologik.
BSD-licensed dictionary of Polish (SGJP)
http://sgjp.pl/morfeusz/

Copyright 2011 Zygmunt Saloni, Wodzimierz Gruszczyski, Marcin Woliski, Robert Woosz

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY COPYRIGHT HOLDERS AS IS AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.149 lucene-sandbox 5.5.2

1.149.1 Available under license:
Apache Lucene
Copyright 2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Includes software from other Apache Software Foundation projects, including, but not limited to:
- Apache Ant
- Apache Jakarta Regexp
- Apache Commons
ICU4J, (under analysis/icu) is licensed under an MIT styles license and Copyright (c) 1995-2008 International Business Machines Corporation and others

Some data files (under analysis/icu/src/data) are derived from Unicode data such as the Unicode Character Database. See http://unicode.org/copyright.html for more details.

Brics Automaton (under core/src/java/org/apache/lucene/util/automaton) is BSD-licensed, created by Anders Mller. See http://www.brics.dk/automaton/

The levenshtein automata tables (under core/src/java/org/apache/lucene/util/automaton) were automatically generated with the moman/finenight FSA library, created by Jean-Philippe Barrette-LaPierre. This library is available under an MIT license, see http://sites.google.com/site/rrettesite/moman and http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from the Apache CXF project and is Apache License 2.0.

The Google Code Prettify is Apache License 2.0. See http://code.google.com/p/google-code-prettify/

JUnit (junit-4.10) is licensed under the Common Public License v. 1.0. See http://junit.sourceforge.net/cpl-v10.html

This product includes code (JaspellTernarySearchTrie) from Java Spelling Checkin g Package (jaspell): http://jaspell.sourceforge.net/ License: The BSD License (http://www.opensource.org/licenses/bsd-license.php)

The snowball stemmers in
   analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
   analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
   http://snowball.tartarus.org/

The KStem stemmer in
   analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst) under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
   analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:

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

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

The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in `stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt`. See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

`WordBreakTestUnicode_*.java` (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database. See http://unicode.org/copyright.html for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (http://morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary (http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike.

Morfologic includes data from BSD-licensed dictionary of Polish (SGJP) (http://sgjp.pl/morfeusz/)

Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original
source code for this can be found at http://www.eclipse.org/jetty/downloads.php

===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

===========================================================================
mecab-ipadic-2.7.0-20070801 Notice
===========================================================================

Nara Institute of Science and Technology (NAIST),
the copyright holders, disclaims all warranties with regard to this
software, including all implied warranties of merchantability and
fitness, in no event shall NAIST be liable for
any special, indirect or consequential damages or any damages
whatsoever resulting from loss of use, data or profits, whether in an
action of contract, negligence or other tortuous action, arising out
of or in connection with the use or performance of this software.

A large portion of the dictionary entries
originating from ICOT Free Software. The following conditions for ICOT
Free Software applies to the current dictionary as well.

Each User may also freely distribute the Program, whether in its
original form or modified, to any third party or parties, PROVIDED
that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
on, or be attached to, the Program, which is distributed substantially
in the same form as set out herein and that such intended
distribution, if actually made, will neither violate or otherwise
contravene any of the laws and regulations of the countries having
jurisdiction over the User or the intended distribution itself.

NO WARRANTY

The program was produced on an experimental basis in the course of the
research and development conducted during the project and is provided
to users as so produced on an experimental basis. Accordingly, the program is provided without any warranty whatsoever, whether express, implied, statutory or otherwise. The term "warranty" used herein includes, but is not limited to, any warranty of the quality, performance, merchantability and fitness for a particular purpose of the program and the nonexistence of any infringement or violation of any right of any third party.

Each user of the program will agree and understand, and be deemed to have agreed and understood, that there is no warranty whatsoever for the program and, accordingly, the entire risk arising from or otherwise connected with the program is assumed by the user.

Therefore, neither ICOT, the copyright holder, or any other organization that participated in or was otherwise related to the development of the program and their respective officials, directors, officers and other employees shall be held liable for any and all damages, including, without limitation, general, special, incidental and consequential damages, arising out of or otherwise in connection with the use or inability to use the program or any product, material or result produced or otherwise obtained by using the program, regardless of whether they have been advised of, or otherwise had knowledge of, the possibility of such damages at any time during the project or thereafter. Each user will be deemed to have agreed to the foregoing by his or her commencement of use of the program. The term "use" as used herein includes, but is not limited to, the use, modification, copying and distribution of the program and the production of secondary products from the program.

In the case where the program, whether in its original form or modified, was distributed or delivered to or received by a user from any person, organization or entity other than ICOT, unless it makes or grants independently of ICOT any specific warranty to the user in writing, such person, organization or entity, will also be exempted from and not be held liable to the user for any such damages as noted above as far as the program is concerned.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.
"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "["] replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.
Some code in core/src/java/org/apache/lucene/util/UnicodeUtil.java was
derived from unicode conversion examples available at
http://www.unicode.org/Public/PROGRAMS/CVTUTF. Here is the copyright
from those sources:

/*
 * Copyright 2001-2004 Unicode, Inc.
 * 
 * Disclaimer
 * 
 * This source code is provided as is by Unicode, Inc. No claims are
 * made as to fitness for any particular purpose. No warranties of any
 * kind are expressed or implied. The recipient agrees to determine
 * applicability of information provided. If this file has been
 * purchased on magnetic or optical media from Unicode, Inc., the
 * sole remedy for any claim will be exchange of defective media
 * within 90 days of receipt.
 * 
 * Limitations on Rights to Redistribute This Code
 * 
 * Unicode, Inc. hereby grants the right to freely use the information
 * supplied in this file in the creation of products supporting the
 * Unicode Standard, and to make copies of this file in any form
 * for internal or external distribution as long as this notice
 * remains attached.
 */

Some code in core/src/java/org/apache/lucene/util/ArrayUtil.java was
derived from Python 2.4.2 sources available at
http://www.python.org. Full license is here:

http://www.python.org/download/releases/2.4.2/license/

Some code in core/src/java/org/apache/lucene/util/UnicodeUtil.java was
derived from Python 3.1.2 sources available at
http://www.python.org. Full license is here:

http://www.python.org/download/releases/3.1.2/license/

Some code in core/src/java/org/apache/lucene/util/automaton was
derived from Brics automaton sources available at
www.brics.dk/automaton/. Here is the copyright from those sources:

/*
 * Copyright (c) 2001-2009 Anders Moeller
 * All rights reserved.
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. The name of the author may not be used to endorse or promote products
*    derived from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

The levenshtein automata tables in core/src/java/org/apache/lucene/util/automaton
were automatically generated with the moman/finenight FSA package.
Here is the copyright for those sources:

# Copyright (c) 2010, Jean-Philippe Barrette-LaPierre, <jpb@rrette.com>
#
# Permission is hereby granted, free of charge, to any person
# obtaining a copy of this software and associated documentation
# files (the "Software"), to deal in the Software without
# restriction, including without limitation the rights to use,
# copy, modify, merge, publish, distribute, sublicense, and/or sell
# copies of the Software, and to permit persons to whom the
# Software is furnished to do so, subject to the following
# conditions:
#
# The above copyright notice and this permission notice shall be
# included in all copies or substantial portions of the Software.
#
# THE SOFTWARE IS PROVIDED ''AS IS'', WITHOUT WARRANTY OF ANY KIND,
# EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
# OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
# NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
# HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
# WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
Some code in core/src/java/apache/lucene/util/UnicodeUtil.java was derived from ICU (http://www.icu-project.org)
The full license is available here:
http://source.icu-project.org/repos/icu/icu/trunk/license.html

/*
 * Copyright (C) 1999-2010, International Business Machines
 * Corporation and others. All Rights Reserved.
 *
 * Permission is hereby granted, free of charge, to any person obtaining a copy
 * of this software and associated documentation files (the "Software"), to deal
 * in the Software without restriction, including without limitation the rights
 * to use, copy, modify, merge, publish, distribute, and/or sell copies of the
 * Software, and to permit persons to whom the Software is furnished to do so,
 * provided that the above copyright notice(s) and this permission notice appear
 * in all copies of the Software and that both the above copyright notice(s) and
 * this permission notice appear in supporting documentation.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.
 * IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE
 * LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR
 * ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER
 * IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 *
 * Except as contained in this notice, the name of a copyright holder shall not
 * be used in advertising or otherwise to promote the sale, use or other
 * dealings in this Software without prior written authorization of the
 * copyright holder.
 */

The following license applies to the Snowball stemmers:

Copyright (c) 2001, Dr Martin Porter
Copyright (c) 2002, Richard Boulton
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
* this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* Neither the name of the copyright holders nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following license applies to the KStemmer:

Copyright 2003,
Center for Intelligent Information Retrieval,
University of Massachusetts, Amherst.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. The names "Center for Intelligent Information Retrieval" and
"University of Massachusetts" must not be used to endorse or promote products
derived from this software without prior written permission. To obtain
permission, contact info@ciir.cs.umass.edu.

THIS SOFTWARE IS PROVIDED BY UNIVERSITY OF MASSACHUSETTS AND OTHER CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following license applies to the Morfologik project:

Copyright (c) 2006 Dawid Weiss
Copyright (c) 2007-2011 Dawid Weiss, Marcin Mikowski
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Morfologik nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---

The dictionary comes from Morfologik project. Morfologik uses data from Polish ispell/myspell dictionary hosted at http://www.sjp.pl/slownik/en/ and is licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike. The part-of-speech tags were added in Morfologik project and are not found in the data from sjp.pl. The tagset is similar to IPI PAN tagset.

---

The following license applies to the Morfeusz project, used by org.apache.lucene.analysis.morfologik.
BSD-licensed dictionary of Polish (SGJP)
http://sgjp.pl/morfeusz/

Copyright 2011 Zygmunt Saloni, Wodzimierz Gruszczyński,
Marcin Woliski, Robert Woosz

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY COPYRIGHT HOLDERS AS IS AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.150 lz4 r131 :1

1.150.1 Available under license:

LZ4 Library
Copyright (c) 2011-2014, Yann Collet
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or
other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2014, lpsantil
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

1.151 lz4/gplv2_programs r131 :1

1.151.1 Available under license :
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

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

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

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

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

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

The precise terms and conditions for copying, distribution and
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification"). Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

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

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

   b) You must cause any work that you distribute or publish, that in
      whole or in part contains or is derived from the Program or any
      part thereof, to be licensed as a whole at no charge to all third
      parties under the terms of this License.

   c) If the modified program normally reads commands interactively
      when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) 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; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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.

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

    The hypothetical commands `show w' and `show c' should show the appropriate
    parts of the General Public License. Of course, the commands you use may
    be called something other than `show w' and `show c'; they could even be
    mouse-clicks or menu items--whatever suits your program.

    You should also get your employer (if you work as a programmer) or your
    school, if any, to sign a "copyright disclaimer" for the program, if
    necessary. Here is a sample; alter the names:

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

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

    This General Public License does not permit incorporating your program into
    proprietary programs. If your program is a subroutine library, you may
    consider it more useful to permit linking proprietary applications with the
    library. If this is what you want to do, use the GNU Lesser General
    Public License instead of this License.
1.152 math_expressions 0.2.0+1

1.152.1 Available under license:

math_expressions

Copyright (c) 2013-2016 Frederik Leonhardt <frederik.leonhardt@gmail.com>,
Michael Frey <asakash117@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.153 mime_type 0.1.8

1.153.1 Available under license:

<!DOCTYPE html>
<html>
<head>
<title>MIT LICENSE</title>
</head>
<body>
<h3>
LICENSE
</h3>
<p id="text">

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in the
Software without restriction, including without limitation the rights to use, copy,
modify, merge, publish, distribute, sublicense, and/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.154 mockito-core 2.12.0

1.154.1 Available under license:

====
Copyright (c) 2016 Mockito contributors
This program is made available under the terms of the MIT License.
====

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTicular PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.
"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "["] replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.
The MIT License

Copyright (c) 2007 Mockito contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.155 Mozilla Rhino 1.7R4

1.155.1 Available under license :
Mozilla Public License, Version 2.0
http://www.mozilla.org/MPL/2.0/index.txt

1.156 msg-simple 1.1

1.156.1 Available under license :
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.
"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works.
of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License);
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

This software is dual-licensed under:

- the Lesser General Public License (LGPL) version 3.0 or, at your option, any
  later version;
- the Apache Software License (ASL) version 2.0.
The text of both licenses is included (under the names LGPL-3.0.txt and ASL-2.0.txt respectively).

Direct link to the sources:

- LGPL 3.0: https://www.gnu.org/licenses/lgpl-3.0.txt
- ASL 2.0: http://www.apache.org/licenses/LICENSE-2.0.txt

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.
1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based
on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.157 msgpack-core 0.8.14

1.158 msgpack-core 0.8.16

1.159 mysql-connector-java 6.0.6
1.160 netty 4.1.25

1.160.1 Available under license:

Copyright (c) 2010-2011 Matthew J. Francis and Contributors of the jbzip2 Project

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Protocol Buffers - Google's data interchange format
Copyright 2013 Google Inc. All rights reserved.
https://developers.google.com/protocol-buffers/

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it. This code is not
standalone and requires a support library to be linked with it. This
support library is itself covered by the above license.

/*
 * Copyright (c) 2004-2007 QOS.ch
 * All rights reserved.
 *
 * Permission is hereby granted, free of charge, to any person obtaining
 * a copy of this software and associated documentation files (the
 * "Software"), to deal in the Software without restriction, including
 * without limitation the rights to use, copy, modify, merge, publish,
 * distribute, sublicense, and/or sell copies of the Software, and to
 * permit persons to whom the Software is furnished to do so, subject to
 * the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 * LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 * OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
 * WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
 */

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
The MIT License (MIT)

Copyright (c) 2000 - 2013 The Legion of the Bouncy Castle Inc.
(http://www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This copy of Aalto XML processor is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/

A copy is also included with both the the downloadable source code package
and jar that contains class bytecodes, as file "ASL 2.0". In both cases, that file should be located next to this file: in source distribution the location should be "release-notes/asl"; and in jar "META-INF/*"

(BSD License: http://www.opensource.org/licenses/bsd-license)

Copyright (c) 2011, Joe Walnes, Aslak Hellesy and contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the Webbit nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2011, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following disclaimer
  in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
The MIT License

Copyright (c) 2009 William Kinney

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2003-2008 Yuta Mori All Rights Reserved.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The person or persons who have associated work with this document (the "Dedicator" or "Certifier") hereby either (a) certifies that, to the best of his knowledge, the work of authorship identified is in the public domain of the country from which the work is published, or (b) hereby dedicates whatever copyright the dedicators holds in the work of authorship identified below (the "Work") to the public domain. A certifier, moreover, dedicates any copyright interest he may have in the associated work, and for these purposes, is described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this work. Certifier recognizes that his good faith efforts may not shield him from liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to the detriment of the Dedicator's heirs and successors. Dedicator intends this dedication to be an overt act of relinquishment in perpetuate of all present and future rights under copyright law, whether vested or contingent, in the Work. Dedicator understands that such relinquishment of all rights includes the relinquishment of all rights to enforce (by lawsuit or otherwise) those copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be freely reproduced, distributed, transmitted, used, modified, built upon, or otherwise exploited by anyone for any purpose, commercial or non-commercial, and in any way, including by methods that have not yet been invented or conceived.

Apache Harmony

Copyright 2006, 2010 The Apache Software Foundation.
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the distribution.

3. The names of the authors may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT,
INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGligence OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The Netty Project
=================

Please visit the Netty web site for more information:

* http://netty.io/

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.
Also, please refer to each LICENSE.<component>.txt file, which is located in the 'license' directory of the distribution file, for the license terms of the components that this product depends on.

This product contains the extensions to Java Collections Framework which has been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

* LICENSE:
  * license/LICENSE.jsr166y.txt (Public Domain)
* HOMEPAGE:
  * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
  * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/jsr166/

This product contains a modified version of Robert Harder's Public Domain Base64 Encoder and Decoder, which can be obtained at:

* LICENSE:
  * license/LICENSE.base64.txt (Public Domain)
* HOMEPAGE:
  * http://iharder.sourceforge.net/current/java/base64/

This product contains a modified portion of 'Webbit', an event based WebSocket and HTTP server, which can be obtained at:

* LICENSE:
  * license/LICENSE.webbit.txt (BSD License)
* HOMEPAGE:
  * https://github.com/joewalnes/webbit

This product contains a modified portion of 'SLF4J', a simple logging facade for Java, which can be obtained at:

* LICENSE:
  * license/LICENSE.slf4j.txt (MIT License)
* HOMEPAGE:
  * http://www.slf4j.org/

This product contains a modified portion of 'Apache Harmony', an open source Java SE, which can be obtained at:

* NOTICE:
  * license/NOTICE.harmony.txt
* LICENSE:
  * license/LICENSE.harmony.txt (Apache License 2.0)
* HOMEPAGE:
  * http://archive.apache.org/dist/harmony/
This product contains a modified portion of 'jbzip2', a Java bzip2 compression and decompression library written by Matthew J. Francis. It can be obtained at:

* LICENSE:
  * license/LICENSE.jbzip2.txt (MIT License)
* HOMEPAGE:
  * https://code.google.com/p/jbzip2/

This product contains a modified portion of 'libdivsufsort', a C API library to construct the suffix array and the Burrows-Wheeler transformed string for any input string of a constant-size alphabet written by Yuta Mori. It can be obtained at:

* LICENSE:
  * license/LICENSE.libdivsufsort.txt (MIT License)
* HOMEPAGE:
  * https://github.com/y-256/libdivsufsort

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java Concurrency Tools for the JVM, which can be obtained at:

* LICENSE:
  * license/LICENSE.jctools.txt (ASL2 License)
* HOMEPAGE:
  * https://github.com/JCTools/JCTools

This product optionally depends on 'JZlib', a re-implementation of zlib in pure Java, which can be obtained at:

* LICENSE:
  * license/LICENSE.jzlib.txt (BSD style License)
* HOMEPAGE:
  * http://www.jcraft.com/jzlib/

This product optionally depends on 'Compress-LZF', a Java library for encoding and decoding data in LZF format, written by Tatu Saloranta. It can be obtained at:

* LICENSE:
  * license/LICENSE.compress-lzf.txt (Apache License 2.0)
* HOMEPAGE:
  * https://github.com/ning/compress

This product optionally depends on 'lz4', a LZ4 Java compression and decompression library written by Adrien Grand. It can be obtained at:

* LICENSE:
  * license/LICENSE.lz4.txt (Apache License 2.0)
* HOMEPAGE:
This product optionally depends on 'lzma-java', a LZMA Java compression and decompression library, which can be obtained at:

* LICENSE:
  * license/LICENSE.lzma-java.txt (Apache License 2.0)
* HOMEPAGE:
  * https://github.com/jponge/lzma-java

This product contains a modified portion of 'jfastlz', a Java port of FastLZ compression and decompression library written by William Kinney. It can be obtained at:

* LICENSE:
  * license/LICENSE.jfastlz.txt (MIT License)
* HOMEPAGE:
  * https://code.google.com/p/jfastlz/

This product contains a modified portion of and optionally depends on 'Protocol Buffers', Google's data interchange format, which can be obtained at:

* LICENSE:
  * license/LICENSE.protobuf.txt (New BSD License)
* HOMEPAGE:
  * https://github.com/google/protobuf

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate a temporary self-signed X.509 certificate when the JVM does not provide the equivalent functionality. It can be obtained at:

* LICENSE:
  * license/LICENSE.bouncycastle.txt (MIT License)
* HOMEPAGE:
  * http://www.bouncycastle.org/

This product optionally depends on 'Snappy', a compression library produced by Google Inc, which can be obtained at:

* LICENSE:
  * license/LICENSE.snappy.txt (New BSD License)
* HOMEPAGE:
  * https://github.com/google/snappy

This product optionally depends on 'JBoss Marshalling', an alternative Java serialization API, which can be obtained at:

* LICENSE:
  * license/LICENSE.jboss-marshalling.txt (GNU LGPL 2.1)
This product optionally depends on 'Caliper', Google's micro-benchmarking framework, which can be obtained at:

* LICENSE:
  * license/LICENSE.caliper.txt (Apache License 2.0)
* HOMEPAGE:
  * https://github.com/google/caliper

This product optionally depends on 'Apache Commons Logging', a logging framework, which can be obtained at:

* LICENSE:
  * license/LICENSE.commons-logging.txt (Apache License 2.0)
* HOMEPAGE:
  * http://commons.apache.org/logging/

This product optionally depends on 'Apache Log4J', a logging framework, which can be obtained at:

* LICENSE:
  * license/LICENSE.log4j.txt (Apache License 2.0)
* HOMEPAGE:
  * http://logging.apache.org/log4j/

This product optionally depends on 'Aalto XML', an ultra-high performance non-blocking XML processor, which can be obtained at:

* LICENSE:
  * license/LICENSE.aalto-xml.txt (Apache License 2.0)
* HOMEPAGE:
  * http://wiki.fasternl.com/AaltoHome

This product contains a modified version of 'HPACK', a Java implementation of the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

* LICENSE:
  * license/LICENSE.hpack.txt (Apache License 2.0)
* HOMEPAGE:
  * https://github.com/twitter/hpack

This product contains a modified portion of 'Apache Commons Lang', a Java library provides utilities for the java.lang API, which can be obtained at:

* LICENSE:
  * license/LICENSE.commons-lang.txt (Apache License 2.0)
This product contains the Maven wrapper scripts from 'Maven Wrapper', that provides an easy way to ensure a user has everything necessary to run the Maven build.

* LICENSE:
  * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
  * HOMEPAGE:
  * https://github.com/takari/maven-wrapper

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "["]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.
When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".
A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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.

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

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

b) 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.

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, 5th Floor, Boston, MA 02110-1301 USA

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

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

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

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

That's all there is to it!

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Copyright 2009-2010 Ning, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not
use this file except in compliance with the License. You may obtain a copy of
the License at http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations under
the License.
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates whatever
copyright the dedicators holds in the work of authorship identified below (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this
work. Certifier recognizes that his good faith efforts may not shield him from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to
the detriment of the Dedicator's heirs and successors. Dedicator intends this
dedication to be an overt act of relinquishment in perpetuity of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.

1.161 netty-all 4.1.28.Final
1.161.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

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

This license, the Lesser General Public License, applies to some
specially designated software packages---typically libraries---of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

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

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

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) 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.

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

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY. TO THE EXTENT PERMITTED BY APPLICABLE LAW, EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, 5th Floor, Boston, MA 02110-1301 USA

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

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

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

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

That's all there is to it!
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates whatever
copyright the dedicators holds in the work of authorship identified below (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this
work. Certifier recognizes that his good faith efforts may not shield him from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to
the detriment of the Dedicator's heirs and successors. Dedicator intends this
dedication to be an overt act of relinquishment in perpetuity of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial, and in any way, including by methods that have not yet been invented or conceived.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.
Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright 2009-2010 Ning, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2010-2011 Matthew J. Francis and Contributors of the jbzip2 Project

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Protocol Buffers - Google's data interchange format
Copyright 2013 Google Inc. All rights reserved.
https://developers.google.com/protocol-buffers/

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner of the input file used when generating it. This code is not standalone and requires a support library to be linked with it. This support library is itself covered by the above license.

/*
 * Copyright (c) 2004-2007 QOS.ch
 * All rights reserved.
 *
 * Permission is hereby granted, free of charge, to any person obtaining
 * a copy of this software and associated documentation files (the
 * "Software"), to deal in the Software without restriction, including
 * without limitation the rights to use, copy, modify, merge, publish,
 * distribute, sublicense, and/or sell copies of the Software, and to
 * permit persons to whom the Software is furnished to do so, subject to
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
The MIT License (MIT)

Copyright (c) 2000 - 2013 The Legion of the Bouncy Castle Inc.
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This copy of Aalto XML processor is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/

A copy is also included with both the the downloadable source code package and jar that contains class bytecodes, as file "ASL 2.0". In both cases, that file should be located next to this file: in source distribution the location should be "release-notes/asl"; and in jar "META-INF/"

(BSD License: http://www.opensource.org/licenses/bsd-license)

Copyright (c) 2011, Joe Walnes, Aslak Hellesy and contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other
materials provided with the distribution.

* Neither the name of the Webbit nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2011, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The MIT License

Copyright (c) 2009 William Kinney

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2003-2008 Yuta Mori All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The person or persons who have associated work with this document (the "Dedicator" or "Certifier") hereby either (a) certifies that, to the best of his knowledge, the work of authorship identified is in the public domain of the country from which the work is published, or (b) hereby dedicates whatever copyright the dedicators holds in the work of authorship identified below (the "Work") to the public domain. A certifier, moreover, dedicates any copyright interest he may have in the associated work, and for these purposes, is described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this work. Certifier recognizes that his good faith efforts may not shield him from liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to the detriment of the Dedicator's heirs and successors. Dedicator intends this dedication to be an overt act of relinquishment in perpetuate of all present and future rights under copyright law, whether vested or contingent, in the Work. Dedicator understands that such relinquishment of all rights includes the relinquishment of all rights to enforce (by lawsuit or otherwise) those copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be freely reproduced, distributed, transmitted, used, modified, built upon, or otherwise exploited by anyone for any purpose, commercial or non-commercial, and in any way, including by methods that have not yet been invented or conceived.

Apache Harmony

Copyright 2006, 2010 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT,
INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The Netty Project
=================

Please visit the Netty web site for more information:

* http://netty.io/

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in
the 'license' directory of the distribution file, for the license terms of the
components that this product depends on.

This product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

* LICENSE:
  * license/LICENSE.jsr166y.txt (Public Domain)
* HOMEPAGE:
  * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
  * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbossframework/experimental/jsr166/

This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:
This product contains a modified portion of 'Webbit', an event based WebSocket and HTTP server, which can be obtained at:

* LICENSE:
  * license/LICENSE.webbit.txt (BSD License)
* HOMEPAGE:
  * https://github.com/joewalnes/webbit

This product contains a modified portion of 'SLF4J', a simple logging facade for Java, which can be obtained at:

* LICENSE:
  * license/LICENSE.slf4j.txt (MIT License)
* HOMEPAGE:
  * http://www.slf4j.org/

This product contains a modified portion of 'Apache Harmony', an open source Java SE, which can be obtained at:

* NOTICE:
  * license/NOTICE.harmony.txt
* LICENSE:
  * license/LICENSE.harmony.txt (Apache License 2.0)
* HOMEPAGE:
  * http://archive.apache.org/dist/harmony/

This product contains a modified portion of 'jbzip2', a Java bzip2 compression and decompression library written by Matthew J. Francis. It can be obtained at:

* LICENSE:
  * license/LICENSE.jbzip2.txt (MIT License)
* HOMEPAGE:
  * https://code.google.com/p/jbzip2/

This product contains a modified portion of 'libdivsufsort', a C API library to construct the suffix array and the Burrows-Wheeler transformed string for any input string of a constant-size alphabet written by Yuta Mori. It can be obtained at:

* LICENSE:
  * license/LICENSE.libdivsufsort.txt (MIT License)
* HOMEPAGE:
  * https://github.com/y-256/libdivsufsort
This product contains a modified portion of Nitsan Wakart's 'JCTools', Java Concurrency Tools for the JVM, which can be obtained at:

* LICENSE:
  * license/LICENSE.jctools.txt (ASL2 License)
* HOMEPAGE:
  * https://github.com/JCTools/JCTools

This product optionally depends on 'JZlib', a re-implementation of zlib in pure Java, which can be obtained at:

* LICENSE:
  * license/LICENSE.jzlib.txt (BSD style License)
* HOMEPAGE:
  * http://www.jcraft.com/jzlib/

This product optionally depends on 'Compress-LZF', a Java library for encoding and decoding data in LZF format, written by Tatu Saloranta. It can be obtained at:

* LICENSE:
  * license/LICENSE.compress-lzf.txt (Apache License 2.0)
* HOMEPAGE:
  * https://github.com/ning/compress

This product optionally depends on 'lz4', a LZ4 Java compression and decompression library written by Adrien Grand. It can be obtained at:

* LICENSE:
  * license/LICENSE.lz4.txt (Apache License 2.0)
* HOMEPAGE:
  * https://github.com/jpountz/lz4-java

This product optionally depends on 'lzma-java', a LZMA Java compression and decompression library, which can be obtained at:

* LICENSE:
  * license/LICENSE.lzma-java.txt (Apache License 2.0)
* HOMEPAGE:
  * https://github.com/jponge/lzma-java

This product contains a modified portion of 'jfastlz', a Java port of FastLZ compression and decompression library written by William Kinney. It can be obtained at:

* LICENSE:
  * license/LICENSE.jfastlz.txt (MIT License)
* HOMEPAGE:
  * https://code.google.com/p/jfastlz/
This product contains a modified portion of and optionally depends on 'Protocol Buffers', Google's data interchange format, which can be obtained at:

* LICENSE:
  * license/LICENSEprotobuf.txt (New BSD License)
* HOMEPAGE:
  * https://github.com/google/protobuf

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate a temporary self-signed X.509 certificate when the JVM does not provide the equivalent functionality. It can be obtained at:

* LICENSE:
  * license/LICENSEbouncycastle.txt (MIT License)
* HOMEPAGE:
  * http://www.bouncycastle.org/

This product optionally depends on 'Snappy', a compression library produced by Google Inc, which can be obtained at:

* LICENSE:
  * license/LICENSEsnappy.txt (New BSD License)
* HOMEPAGE:
  * https://github.com/google/snappy

This product optionally depends on 'JBoss Marshalling', an alternative Java serialization API, which can be obtained at:

* LICENSE:
  * license/LICENSEjboss-marshalling.txt (GNU LGPL 2.1)
* HOMEPAGE:
  * http://www.jboss.org/jbossmarshalling

This product optionally depends on 'Caliper', Google's micro-benchmarking framework, which can be obtained at:

* LICENSE:
  * license/LICENSEcaliper.txt (Apache License 2.0)
* HOMEPAGE:
  * https://github.com/google/caliper

This product optionally depends on 'Apache Commons Logging', a logging framework, which can be obtained at:

* LICENSE:
  * license/LICENSEcommons-logging.txt (Apache License 2.0)
* HOMEPAGE:
  * http://commons.apache.org/logging/
This product optionally depends on 'Apache Log4J', a logging framework, which can be obtained at:

* LICENSE:
  * license/LICENSE.log4j.txt (Apache License 2.0)
* HOMEPAGE:
  * http://logging.apache.org/log4j/

This product optionally depends on 'Aalto XML', an ultra-high performance non-blocking XML processor, which can be obtained at:

* LICENSE:
  * license/LICENSE.aalto-xml.txt (Apache License 2.0)
* HOMEPAGE:
  * http://wiki.fasterxml.com/AaltoHome

This product contains a modified version of 'HPACK', a Java implementation of the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

* LICENSE:
  * license/LICENSE.hpack.txt (Apache License 2.0)
* HOMEPAGE:
  * https://github.com/twitter/hpack

This product contains a modified portion of 'Apache Commons Lang', a Java library provides utilities for the java.lang API, which can be obtained at:

* LICENSE:
  * license/LICENSE.commons-lang.txt (Apache License 2.0)
* HOMEPAGE:
  * https://commons.apache.org/proper/commons-lang/

This product contains the Maven wrapper scripts from 'Maven Wrapper', that provides an easy way to ensure a user has everything necessary to run the Maven build.

* LICENSE:
  * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
* HOMEPAGE:
  * https://github.com/takari/maven-wrapper

1.162 netty-buffer 4.1.19.Final
1.163 netty-codec 4.1.19.Final

1.164 netty-codec-dns 4.1.19.Final

1.165 netty-codec-http 4.1.19.Final

1.166 netty-codec-http2 4.1.19.Final

1.167 netty-codec-socks 4.1.19.Final

1.168 netty-common 4.1.19.Final

1.169 netty-handler 4.1.19.Final

1.170 netty-handler-proxy 4.1.19.Final

1.171 netty-resolver 4.1.19.Final
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

This software is dual-licensed under:

- the Lesser General Public License (LGPL) version 3.0 or, at your option, any later version;
- the Apache Software License (ASL) version 2.0.

The text of both licenses is included (under the names LGPL-3.0.txt and ASL-2.0.txt respectively).

Direct link to the sources:

- LGPL 3.0: https://www.gnu.org/licenses/lgpl-3.0.txt
- ASL 2.0: http://www.apache.org/licenses/LICENSE-2.0.txt

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.
0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or
b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.
1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.175 oauth-dart 1.1.1-dev3

1.175.1 Available under license:

Copyright 2014, the Dart project authors. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.176 objenesis 2.6
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of,
"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

// ------------------------------------------------------------------
// NOTICE file corresponding to the section 4d of The Apache License,
// Version 2.0, in this case for Objenesis
// ------------------------------------------------------------------

Objenesis
Copyright 2006-2017 Joe Walnes, Henri Tremblay, Leonardo Mesquita

1.177 opentest4j 1.0.0

1.178 package_config 0.1.5
1.178.1 Available under license :

Copyright 2015, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
1.179 parstream-authentication 1.2
1.179.1 Available under license:

The GNU General Public License, Version 2, June 1991 (GPLv2)

============================================================

> Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble
--------

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation’s software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

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

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

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

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

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

The precise terms and conditions for copying, distribution and modification follow.

GNU General Public License Terms And Conditions For Copying, Distribution And Modification

**0.** This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

**1.** You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

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

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

- **b)** You must cause any work that you distribute or publish, that in
  whole or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

- **c)** If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the most ordinary way, to print or display an
  announcement including an appropriate copyright notice and a
  notice that there is no warranty (or else, saying that you provide
  a warranty) and that users may redistribute the program under
  these conditions, and telling the user how to view a copy of this
  License.  (Exception: if the Program itself is interactive but
  does not normally print such an announcement, your work based on
  the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
**3.** You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- **a)** 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; or,

- **b)** Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

- **c)** Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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.

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

**4.** You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
**5.** You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

**6.** Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

**7.** If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.
**8.** If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

**9.** The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

**10.** If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

No Warranty
-----------

**11.** BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

**12.** IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

End Of Terms And Conditions

---------------------------

### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may
```
be called something other than `show w` and `show c`; they could even be
mouse-clicks or menu items -- whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.180 password_hasher 0.3.1

1.180.1 Available under license :
Copyright 2014 James Ots

Licensed under the Apache License, Version 2.0 (the "License);
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.181 path-dart 1.4.2

1.181.1 Available under license :
Copyright 2014, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.182 petitparser-dart 1.5.3

1.182.1 Available under license :

The MIT License

Copyright (c) 2006-2016 Lukas Renggli.
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
1.183 postgresql-jdbc 42.2.5

1.183.1 Available under license:

---
layout: default
title: PostgreSQL JDBC Contributors
resource: ../media
nav: ../
---

{% include submenu_community.html %}

<div id="pgContentWrap">
<h1>Contributors</h1>
<hr />
<div>
<ul>
<li><a href="#maintainers">Maintainers</a></li>
<li><a href="#authors">Previous Maintainers</a></li>
<li><a href="#developers">Developers</a></li>
<li><a href="#translators">Translators</a></li>
</ul>
<hr />
<a name="maintainers"></a>
<h2 class="underlined_10">Maintainers</h2>
<div>
<p>Please do not contact the maintainers directly unless you have a specific need to contact just them. Please use the <a href="mailinglist.html#general">pgsql-jdbc@postgresql.org</a> mailing list if at all possible.</p>
</div>
<hr />
<a name="authors"></a>
<h2 class="underlined_10">Previous Maintainers</h2>
<div>
<p>The original JDBC driver was written by Adrian Hall. Peter Mount</p>
</div>
</div>
</div>
and Barry Lind have maintained it in the past, but have since moved on to other things.

<h2 class="underlined_10">Developers</h2>

People who have contributed significant code to the project since the 7.4 release. A careful historical study has not been commissioned, but if you've done something valuable, we'd be happy to recognize you for it. Just let us know.

- Jan Andre le Roux
  - ResultSetMetaData information based on the V3 protocol

- Jaroslaw J. Pyszny
  - Improve MetaData regarding the serial datatype

- Ulrich Meis
  - Allow users to customize the SSL connection

- Xavier Poinsard
  - Standard escaped functions \( \{ \text{fn } \ldots() \} \)

- Oliver Siegmar
  - Support for infinity in the timestamp datatype
  - Make PGInterval able to decode and manipulate interval data

- Michael Barker
  - Blob write and position methods

- Andras Kadinger
<ul>
<li>Support asynchronous notification retrieval.</li>
</ul>

<li>Heikki Linnakangas</li>

<ul>
<li>XADatasource implementation.</li>
</ul>

<li>Luis Vilar Flores</li>

<ul>
<li>Reduce memory usage retrieving bytea data.</li>
</ul>

<li>Michael Paesold</li>

<ul>
<li>Correctly parse dollar quotes and comments.</li>
<li>Work with standard_conforming_strings = on.</li>
</ul>

<li>Mikko Tiihonen</li>

<ul>
<li>Improve speed of parsing ResultSet data.</li>
</ul>

<li>Marek Lewczuk</li>

<ul>
<li>Support multi-dimensional arrays and NULL array elements.</li>
</ul>

<div>
</div>

<hr />

<a name="translators"></a>

<h2 class="underlined_10">Translators</h2>

<div>
<ul>
<li>cs - Czech</li>
<li>Petr Dittrich</li>
</ul>
</div>

<div>
<ul>
<li>de - German</li>
<li>Andre Bialojahn</li>
</ul>
</div>
es - Spanish
<ul>
<li>Diego A. Gil</li>
</ul>

fr - French
<ul>
<li>Xavier Poinsard</li>
</ul>

it - Italian
<ul>
<li>Giuseppe Sacco</li>
</ul>

pl - Polish
<ul>
<li>Jaroslaw Pyszny</li>
</ul>

pt_BR - Brazilian Portuguese
<ul>
<li>Euler Taveira de Oliveira</li>
</ul>

ru - Russian
<ul>
<li>Serguei Mokhov</li>
</ul>

sr - Serbian
<ul>
<li>Bojan Skaljac</li>
</ul>

tr - Turkish
<ul>
<li>Devrim Gunduz</li>
<li>Nicolai Tufar</li>
</ul>

zh_CN - Simplified Chinese
<ul>
<li>Weiping</li>
<li>Kuo ChaoYi</li>
</ul>

zh_TW - Traditional Chinese
The PostgreSQL JDBC Driver is distributed under the BSD-2-Clause License. The simplest explanation of the licensing terms is that you can do whatever you want with the product and source code as long as you don't claim you wrote it or sue us. You should give it a read though, it's only half a page.

Copyright (c) 1997, PostgreSQL Global Development Group
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

{ "AlBundy33" : "https://github.com/AlBundy33",
  "AlexElin" : "https://github.com/AlexElin",
  "Barnabas Bodnar" : "https://github.com/bbodnar",
  "Brett Okken" : "https://github.com/bokken",
  "Brett Wooldridge" : "https://github.com/brettwooldridge",
  "Chen Huajun" : "https://github.com/ChenHuajun",
  "Christoph Berg" : "https://github.com/ChristophBerg",
  "Christopher Deckers" : "https://github.com/Chrriis",
  "Daniel Gustafsson" : "https://github.com/danigustafsson",
  "Daniel Migowski" : "https://github.com/dmigowski",
  "Dave Cramer" : "davec@postgresintl.com",
  "Eric McCormack" : "https://github.com/erickmack",
  "Florin Asvoaie" : "https://github.com/FlorinAsvoaie",
  "George Kankava" : "https://github.com/georgekankava",
  "Hari Babu Kommi" : "https://github.com/kommiharibabu",
  "Hugh Cole-Baker" : "https://github.com/sigmaris"}
1.184 psqlodbc 09.01.0100

1.184.1 Available under license:

GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.

675 Mass Ave, Cambridge, MA 02139, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

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

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

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

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

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

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

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

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

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
Most GNU software, including some libraries, is covered by the ordinary
GNU General Public License, which was designed for utility programs. This
license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don’t assume that anything in it is
the same as in the ordinary license.

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

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

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

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

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

GNU LIBRARY GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which
contains a notice placed by the copyright holder or other authorized
party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is
addressed as "you".
A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

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

Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is
implemented by public license practices. Many people have made

generous contributions to the wide range of software distributed

through that system in reliance on consistent application of that

system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot

impose that choice.

This section is intended to make thoroughly clear what is believed to

be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the

original copyright holder who places the Library under this License may add

an explicit geographical distribution limitation excluding those countries,

so that distribution is permitted only in or among countries not thus

excluded. In such case, this License incorporates the limitation as if

written in the body of this License.

13. The Free Software Foundation may publish revised and/or new

versions of the Library General Public License from time to time.

Such new versions will be similar in spirit to the present version,

but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).
To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

# This is free software; see the source for copying conditions. There is NO warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

# GNU Libtool is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# As a special exception to the GNU General Public License,
# if you distribute this file as part of a program or library that
# is built using GNU Libtool, you may include this file under the
# same distribution terms that you use for the rest of that program.
#
# GNU Libtool is distributed in the hope that it will be useful, but
# WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
# General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with GNU Libtool; see the file COPYING. If not, a copy
# can be downloaded from http://www.gnu.org/licenses/gpl.html,
# or obtained by writing to the Free Software Foundation, Inc.,
# 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
# Usage: $progname [OPTION]... [MODE-ARG]...
#
# This is free software; see the source for copying conditions. There is NO
# warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

# GNU Libtool is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# As a special exception to the GNU General Public License,
# if you distribute this file as part of a program or library that
# is built using GNU Libtool, you may include this file under the
# same distribution terms that you use for the rest of that program.
#
# GNU Libtool is distributed in the hope that it will be useful, but
# WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
# General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with GNU Libtool; see the file COPYING. If not, a copy
# can be downloaded from http://www.gnu.org/licenses/gpl.html,
# or obtained by writing to the Free Software Foundation, Inc.,
# 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

# Usage: $progname [OPTION]... [MODE-ARG]...
#

1.185 pub_semver 1.3.2
1.185.1 Available under license:

Copyright 2014, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.186 quiver-dart 0.22.0
1.186.1 Available under license:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.
"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.187 RapidJSON 1.1.0

1.187.1 Available under license:

Copyright (c) 2012 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

Tencent is pleased to support the open source community by making RapidJSON available.

Copyright (C) 2015 THL A29 Limited, a Tencent company, and Milo Yip. All rights reserved.

If you have downloaded a copy of the RapidJSON binary from Tencent, please note that the RapidJSON binary is
licensed under the MIT License.

If you have downloaded a copy of the RapidJSON source code from Tencent, please note that RapidJSON source
code is licensed under the MIT License, except for the third-party components listed below which are subject to
different license terms. Your integration of RapidJSON into your own projects may require compliance with the
MIT License, as well as the other licenses applicable to the third-party components included within RapidJSON. To
avoid the problematic JSON license in your own projects, it's sufficient to exclude the bin/jsonchecker/ directory, as
it's the only code under the JSON license.

A copy of the MIT License is included in this file.

Other dependencies and licenses:

Open Source Software Licensed Under the BSD License:

--------------------------------------------------------------------

The msinttypes r29
Copyright (c) 2006-2013 Alexander Chemeris
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the
following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following
disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of copyright holder nor the names of its contributors may be used to endorse or promote
products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT
SHALL THE REGENTS AND CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
Open Source Software Licensed Under the JSON License:
--------------------------------------------------------------------

json.org
Copyright (c) 2002 JSON.org
All Rights Reserved.

JSON_checker
Copyright (c) 2002 JSON.org
All Rights Reserved.

Terms of the JSON License:
--------------------------------------------------------------------

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the
Software.

The Software shall be used for Good, not Evil.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Terms of the MIT License:
--------------------------------------------------------------------

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
1.188 runc 1.0.0-rc1-218 :ga2a6e82

1.188.1 Available under license:

runc

Copyright 2012-2015 Docker, Inc.

This product includes software developed at Docker, Inc. (http://www.docker.com).

The following is courtesy of our legal counsel:

Use and transfer of Docker may be subject to certain restrictions by the United States and other governments. It is your responsibility to ensure that your use and/or transfer does not violate applicable laws.

For more information, please see http://www.bis.doc.gov

See also http://www.apache.org/dev/crypto.html and/or seek legal counsel.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2014 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.189 runtime_shared 0.20.1

1.190 rxjava 2.1.3

1.191 sanitized_anchor_name 0.1
:10ef21a441db47d8b13ebcc5fd2310f636973c7

7

1.191.1 Available under license:

Copyright (c) 2015 Dmitri Shuralyov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.192 sdk-dslink-dart 1.0.0

1.192.1 Available under license:

part of dslink.common;

class Permission {
    /// now allowed to do anything
    static const int NONE = 0;

    /// list node
    static const int LIST = 1;

    /// read node
    static const int READ = 2;

    /// write attribute and value
    static const int WRITE = 3;

    /// config the node
    static const int CONFIG = 4;

    /// something that can never happen
    static const int NEVER = 5;

    static const List<String> names = const [
        'none',
        'list',
        'read',
        'write',
        'config',
        'never'};
static const Map<String, int> nameParser = const {
  'none': NONE,
  'list': LIST,
  'read': READ,
  'write': WRITE,
  'config': CONFIG,
  'never': NEVER
};

static int parse(Object obj, [int defaultVal = NEVER]) {
  if (obj is String && nameParser.containsKey(obj)) {
    return nameParser[obj];
  }
  return defaultVal;
}

class PermissionList {
  Map<String, int> idMatchs = {};
  Map<String, int> groupMatchs = {};
  int defaultPermission = Permission.NONE;

  void updatePermissions(List data) {
    idMatchs.clear();
    groupMatchs.clear();
    defaultPermission = Permission.NONE;
    for (Object obj in data) {
      if (obj is Map) {
        if (obj['id'] is String) {
          idMatchs[obj['id']] = Permission.nameParser[obj['permission']]!
        } else if (obj['group'] is String) {
          if (obj['group'] == 'default') {
            defaultPermission = Permission.nameParser[obj['permission']]!
          } else {
            groupMatchs[obj['group']] =
            Permission.nameParser[obj['permission']]!
          }
        }
      }
    }
  }

  bool _FORCE_CONFIG = true;

  int getPermission(Responder responder) {
    // TODO Permission temp workaround before user permission is implemented
  }
}
if (_FORCE_CONFIG) {
    return Permission.CONFIG;
}
if (idMatches.containsKey(responder.reqId)) {
    return idMatches[responder.reqId];
}

int rslt = Permission.NEVER;
for (String group in responder.groups) {
    if (groupMatches.containsKey(group)) {
        int v = groupMatches[group];
        if (v < rslt) {
            // choose the lowest permission from all matched group
            rslt = v;
        }
    }
}

if (rslt == Permission.NEVER) {
    return defaultPermission;
}
return rslt;

```
Copyright 2014 DGLogik Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

1.193 slf4j-api 1.7.25

1.193.1 Available under license :
    MIT License
    http://www.opensource.org/licenses/mit-license.php
1.194 slf4j-ext 1.7.25

1.195 snakeyaml 1.18

1.196 spring-beans 4.3.7.RELEASE
1.196.1 Available under license:
The Apache Software License, Version 2.0
http://www.apache.org/licenses/LICENSE-2.0.txt

1.197 spring-context 4.3.7.RELEASE
1.197.1 Available under license:
The Apache Software License, Version 2.0
http://www.apache.org/licenses/LICENSE-2.0.txt

1.198 spring-core 4.3.7.RELEASE
1.198.1 Available under license:
The Apache Software License, Version 2.0
http://www.apache.org/licenses/LICENSE-2.0.txt

1.199 spring-expression 4.3.7.RELEASE
1.199.1 Available under license:
The Apache Software License, Version 2.0
http://www.apache.org/licenses/LICENSE-2.0.txt

1.200 sqlite 3.24.0-r0

1.201 stack_trace 1.7.3
1.201.1 Available under license:

Copyright 2014, the Dart project authors. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.202 Statemachine master

1.202.1 Available under license:

The MIT License (MIT)

Copyright (c) 2015

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.203 stich-dart 0.2.0+4
1.203.1 Available under license :
The MIT License (MIT)

Copyright (c) 2014 Dan Schultz

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.204 swagger-annotations 1.5.18
1.204.1 Available under license :
/*
 * Copyright 2016 SmartBear Software
 * <p>
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 * <p>
 * http://www.apache.org/licenses/LICENSE-2.0
 * <p>
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

package io.swagger.annotations;

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

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

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

/**
 * The name of the license.
 *
 * @return the name of the license
 */
  String name();

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

1.205 swagger-annotations 2.0.0-rc4

1.205.1 Available under license :

/**
 * Copyright 2017 SmartBear Software
 * <p>
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
* <p>
* http://www.apache.org/licenses/LICENSE-2.0
* <p>
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

package io.swagger.v3.oas.annotations.info;

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

/**
 * The annotation may be used in `@link Info#license()` to define a license for the OpenAPI spec.
 * @see <a target="_new" href="https://github.com/OAI/OpenAPI-Specification/blob/3.0.1/versions/3.0.1.md#licenseObject">License (OpenAPI specification)</a>
 * @see io.swagger.v3.oas.annotations.OpenAPIDefinition
 * @see Info
 */
@Target({})
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The license name used for the API.
 * @return the name of the license
 */
String name() default "";

/**
 * A URL to the license used for the API. MUST be in the format of a URL.
 * @return the URL of the license
 */
String url() default "";

}
1.207 swagger-core 2.0.0-rc4

1.208 swagger-core 1.5.18

1.209 swagger-models 1.5.18

1.209.1 Available under license:

```java
package io.swagger.models;

import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;
import java.util.LinkedHashMap;
import java.util.Map;

public class License {
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();
    private String name;
    private String url;

    public License name(String name) {
        setName(name);
        return this;
    }

    public License url(String url) {
        setUrl(url);
        return this;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getUrl() {
        return url;
    }

    public void setUrl(String url) {
        this.url = url;
    }
}
```
return url;
}

public void setUrl(String url) {
    this.url = url;
}

@JsonAnyGetter
public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

@JsonAnySetter
public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

public void setVendorExtensions(Map<String, Object> vendorExtensions) {
    this.vendorExtensions = vendorExtensions;
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((name == null) ? 0 : name.hashCode());
    result = prime * result + ((url == null) ? 0 : url.hashCode());
    result = prime * result + ((vendorExtensions == null) ? 0 : vendorExtensions.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;
    }
    License other = (License) obj;
    if (name == null) {
        if (other.name != null) {
            return false;
        }
    } else if (!name.equals(other.name)) {
        return false;
    }
    if (url == null) {
        if (other.url != null) {
            return false;
        }
    } else if (!url.equals(other.url)) {
        return false;
    }
    if (vendorExtensions == null) {
        if (other.vendorExtensions != null) {
            return false;
        }
    } else if (!vendorExtensions.equals(other.vendorExtensions)) {
        return false;
    }
    return true;
}


```java
if (url == null) {
    if (other.url != null) {
        return false;
    }
} else if (!url.equals(other.url)) {
    return false;
}

if (vendorExtensions == null) {
    if (other.vendorExtensions != null) {
        return false;
    }
} else if (!vendorExtensions.equals(other.vendorExtensions)) {
    return false;
}

return true;
}
```
public class License {
    private String name = null;
    private String url = null;
    private java.util.Map<String, Object> extensions = null;

    /**
     * returns the name property from a License instance.
     *
     * @return String name
     **/
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public License name(String name) {
        this.name = name;
        return this;
    }

    /**
     * returns the url property from a License instance.
     *
     * @return String url
     **/
    public String getUrl() {
        return url;
    }
    public void setUrl(String url) {
        this.url = url;
    }
    public License url(String url) {
        this.url = url;
        return this;
    }

    @Override
}
public boolean equals(java.lang.Object o) {
    if (this == o) {
        return true;
    }
    if (o == null || getClass() != o.getClass()) {
        return false;
    }
    License license = (License) o;
    return Objects.equals(this.name, license.name) &&
           Objects.equals(this.url, license.url) &&
           Objects.equals(this.extensions, license.extensions);
}

@Override
public int hashCode() {
    return Objects.hash(name, url, extensions);
}

public java.util.Map<String, Object> getExtensions() {
    return extensions;
}

public void addExtension(String name, Object value) {
    if (name == null || name.isEmpty() || !name.startsWith("x-")) {
        return;
    }
    if (this.extensions == null) {
        this.extensions = new java.util.HashMap<>();
    }
    this.extensions.put(name, value);
}

public void setExtensions(java.util.Map<String, Object> extensions) {
    this.extensions = extensions;
}

public License extensions(java.util.Map<String, Object> extensions) {
    this.extensions = extensions;
    return this;
}

@Override
public String toString() {
    StringBuilder sb = new StringBuilder();
    sb.append("class License {
    name: ", toIndentedString(name), "
    url: ", toIndentedString(url), "
    "};
    return sb.toString();
}
sb.append("}");
return sb.toString();
}

/**
 * Convert the given object to string with each line indented by 4 spaces
 * (except the first line).
 */
private String toIndentedString(java.lang.Object o) {
    if (o == null) {
        return "null";
    }
    return o.toString().replace("\n", "\n   ");
}

1.211 swagger-parser 1.0.34

1.212 swagger-parser 2.0.0-rc3

1.213 swagger-parser-core 2.0.0-rc3

1.214 swagger-parser-v2-converter 2.0.0-rc3

1.215 swagger-parser-v3 2.0.0-rc3

1.216 symbol-observable 1.2.0
1.216.1 Available under license:
The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)
Copyright (c) Ben Lesh <ben@benlesh.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.217 system_info 0.0.16

1.217.1 Available under license:
Copyright (c) 2014, Andrew Mezoni
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the Andrew Mezoni nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.218 tcmalloc (includign perftools and
libunwind) 2.4.91

1.218.1 Available under license :

Copyright (c) 2005, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following disclaimer
  in the documentation and/or other materials provided with the
  distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
This package was debianized by gperftools Contributors <google-perftools@googlegroups.com>

It was downloaded from http://code.google.com/p/gperftools/downloads/list
Copyright (c) 2005, Google Inc.
All rights reserved.

Copyright (c) 2013, gperftools Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.219 throttle-debounce 2.0.0

1.219.1 Available under license:
Copyright (c) Ivan Nikoli <http://ivannikolic.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---

Copyright (c) 2010 "Cowboy" Ben Alman

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

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

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

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

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

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

The precise terms and conditions for copying, distribution and modification follow.
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) 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; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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.

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

1.220 toml.dart 0.4.0

1.220.1 Available under license :

The MIT License

Copyright (c) 2015 Justin Andresen <jan.dresen.95@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

1.221 typed_data 1.1.3

1.221.1 Available under license:
Copyright 2015, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.222 utf 0.9.0+3

1.222.1 Available under license:
Copyright 2015, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.223 uuid 3.3.2
1.223.1 Available under license :
The MIT License (MIT)

Copyright (c) 2010-2016 Robert Kieffer and other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
Open Source Used In Edge and Fog Processing Module 1.6.0

1.224 vertx-auth-common 3.5.4

1.225 vertx-auth-jwt 3.5.4

1.226 vertx-bridge-common 3.5.4

1.227 vertx-core 3.5.4

1.227.1 Available under license:

JBoss, Home of Professional Open Source.
Copyright 2015 Red Hat, Inc., and individual contributors
as indicated by the @author tags.

Licensed under the Apache License, Version 2.0 (the "License);
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

******************************************************************************
* Copyright (c) 1998-2010 AOL Inc.
* *
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
* *
*   http://www.apache.org/licenses/LICENSE-2.0
* *
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
The MIT License

Copyright (c) 2009 Carl Bystrm

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.228 vertx-ignite 3.5.4

1.229 vertx-jwt 3.5.4

1.230 vertx-rx-java2 3.5.4

1.231 vertx-service-discovery 3.5.4

1.232 vertx-service-factory 3.5.4
1.233 vertx-service-proxy 3.5.4

1.234 vertx-web 3.5.4

1.235 vertx-web-api-contract 3.5.4

1.236 vue 2.5.16

1.236.1 Available under license:

The MIT License (MIT)

Copyright (c) 2013-present, Yuxi (Evan) You

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.237 vue-apollo 3.0.0-beta.19
1.238 vue-clickaway 2.2.2

1.238.1 Available under license:

The MIT License (MIT)

Copyright (c) 2015 Denis Karabaza

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.239 vue-js-modal 1.3.6

1.239.1 Available under license:

MIT License

Copyright (c) 2017 Yev Vlasenko

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.240 vue-progressbar 0.7.5

1.240.1 Available under license :
The MIT License (MIT)

Copyright (c) 2016 Awe

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.241 vue-router 3.0.1

1.241.1 Available under license :
MIT License

Copyright (c) 2013-2016 Evan You

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.242 vue-scroll 2.1.6

1.242.1 Available under license :

The MIT License (MIT)

Copyright (c) 2016 wangpin

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.243 vue-wait 1.3.1

1.243.1 Available under license :

MIT License

Copyright (c) 2018 Fatih Kadir Akn <fatihkadirakin@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.244 vuex 3.0.1

1.244.1 Available under license:
The MIT License (MIT)

Copyright (c) 2015-2016 Evan You

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.245 vuex-persist 1.4.3
1.245.1 Available under license:
MIT License

Copyright (c) 2018 Arnav Gupta

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.246 watcher 0.9.7+3

1.246.1 Available under license:
Copyright 2014, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.247 yajl-2.0.1 2.0.1

1.247.1 Available under license:
Copyright (c) 2007-2011, Lloyd Hilaiel <lloyd@hilaiel.com>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.248 yaml 2.1.7

1.248.1 Available under license:
Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright 2014, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.249 yamlicious 0.0.5
1.249.1 Available under license:
Copyright (c) 2015, Anders Holmgren.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the <organization> nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.250 zen-observable 0.8.8

1.250.1 Available under license:
Copyright (c) 2018 zenparsing (Kevin Smith)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.251 zen-observable-ts 0.8.9

1.251.1 Available under license:
The MIT License (MIT)

Copyright (c) 2018 zenparsing (Kevin Smith)
Copyright (c) 2016 - 2018 Meteor Development Group, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

©2018 Cisco Systems, Inc. All rights reserved.